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Cooperative

G.L.F. Lawn and Garden

GUIDE

I B A
R O C E J
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U. S. Department of Agriculture



YOUR LAWN CAN BE BEAUTIFUL—pages 2-14

FRUITS, FLOWERS AND SHRUBS GIVE EXTRA PLEASURE—pages 16-18

VEGETABLE GARDENING IS FUN, TOO—pages 19-37

SPRING 1956

LAWN CARE



Long associated with beautifully landscaped mansions and rich gardens, lawns are almost universally accepted as the setting for pleasant, rich home life and happy out-of-doors living. A little attention at the right time, as wide a choice of tools as you feel you can afford, and a small investment in maintenance supplies brings that lawn in easy reach for you.

Whether you are establishing a new lawn, maintaining your present one or meeting some special problems such as weeds, steep banks, excessive shade . . . you will find helpful tips on the following pages.

Maintaining Established Lawns

With a well-established turf, there are but a few things that need be done to maintain it; but it is important that these things be done, and at the right time.

A periodic soil test to check on acidity is a sound practice. Soils having a pH value of 6.0 or higher are, as far as acidity is concerned, suitable for good grass growth. If tests show a lower pH rating, an application of lime is indicated; and will last several years, to more than repay the cost and effort. Use 50 pounds of limestone or 30 pounds of hydrated lime per 1,000

square feet, applied with a spreader for easier handling and even application.

On poor soils, and where the lawn is not thrifty, an application of fertilizer in the fall with a second application in the spring will help. A good complete fertilizer such as G.L.F. Gro-LeaF 5-10-5 or the Soluble Gro-LeaF can be used. The 5-10-5 analysis is applied at the rate of 25 pounds per 1,000 square feet on an established lawn or about seven pounds per 1,000 square feet of the Soluble.

To avoid burn, spread when the grass is completely dry; then sprinkle the lawn thoroughly, to wash the material off the grass blades.

Mowing and Watering

Here are two chores that can often make or break a good lawn, and actually the right way is the easiest way.

Mow with a good, sharp mower properly adjusted and cutting at about 1½" height. Adjust the roller on your reel-type mower so that the front edge of the stationary cutting blade is 1½" above a level surface and check both ends of the blade, shifting the roller as needed to have it set level.

Lawns cut regularly at 1½" height have enough

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ALL PRICES IN THIS GUIDE SUBJECT TO CHANGE

top growth to support good root development and are neat appearing. The clippings should be left on the lawn unless mowing has been delayed and bunched clippings lay on the surface where they can smother the grass. These bunches should be spread out or removed.

Watering, unless done properly, might well be omitted. A good lawn may brown during mid-summer drought, but will recover quickly with cooler weather and rainfall. Generally two or three waterings will help when the soil is drying out but before the grass wilts. Soak the ground to a depth of five or six inches. Frequent light sprinklings, wetting only the surface, can be harmful, so—soak the lawn well or don't water at all.

Shaded Lawn Areas

Deep shade near houses and under dense or branching trees creates a different problem of seeding and maintenance. The G.L.F. Super Shady Lawn grass mixture will, in most cases, answer the purpose admirably. Prepare the seed bed carefully to give seed every chance to get a good start. Fertilize these areas both spring and fall, particularly under shade trees, as the tree not only shades the grass but is competing for both fertilizer and water.

In extreme instances where a mixture is not successful, a spring and fall planting of rye grass may suffice if you want grass, or a substitute such as Myrtle may offer a solution.

Banks and Slopes

These cannot always be avoided, but efforts to make them more manageable will avoid a lot of lawn maintenance trouble. Round off the top of the slope so that mowing does not scalp the turf at the crest of the bank. Sodding with a good fescue sod is probably the most desirable, but this is not always practical.

Pay particular attention to good seed bed preparation, and provide plenty of fertilizer. Seeding a bank might better be planned for fall seeding, to give plants a chance to set a good thrifty root system before the hot, dry weather of summer. A mulch of straw or cover of burlap or cheese cloth during the first few weeks will help the new plants to become established. Once established, the regular care is required with possibly more frequent fertilization and more thorough watering.

Weeds

Good lawn care will go a long way toward eliminating many of these unwanted plants. Where broad-leaved weeds such as plantain, dandelion and similar plants are present, G.L.F. Weed Killer MCP, used at the rate of one teaspoonful to one quart of water, and applied to 100 square feet, is an effective control. To handle occasional offending weeds, the Killer Kane that puts a lethal dose of weed killer on the crown of the plant is an easy way to keep broad-leaved weeds out of the lawn.

Crab Grass

This sprawling annual dies out in the fall leaving unsightly bare spots where it has crowded out the desirable lawn grasses. Good lawn care helps keep this weed under control; but to clean it up, chemical warfare may well be in order with improved Weedone Crab Grass Killer. Early in the season—late May and June, depending on the area—when Crab Grass is in the seedling stage, an application of 6 teaspoonsfuls of Improved Weedone Crab Grass Killer in 3½ gallons of water per 500 square feet of lawn is effective. Later, when the plant is mature, the application should be 12 teaspoonsfuls per 3½ gallons of water for 500 square feet.

OTHER PESTS



In some established lawns, insects and disease may be the cause of trouble. Of the subsoil pests, Japanese beetle, oriental beetle, Asiatic garden beetle, masked chafer, European chafer, white grub and rose chafer are not uncommon. These pests feed on the roots, killing the grass and creating browned or dead areas. To control them, an application of five pounds of G.L.F. 5% Chlordane Dust or eight ounces of 50% Chlordane Wetttable Powder or eight tablespoonfuls of 72% Chlordane Emulsifiable in 2½ gallons of water per 1,000 square feet may be used. These should be applied in early May and will remain effective for three to four years. Slower in initial action but longer lasting is DDT. Use 12½ lbs. of 5% DDT dust or 20 ounces of 50% DDT Wetttable Powder or 2½ pints G.L.F. 25% DDT special concentrate in 2½ gallons of water per 1,000 square feet. The DDT will not control white grubs and is questionable on rose chafer. For European chafer, double the DDT quantity. The chlordane and DDT dusts are easily applied with a regular lawn fertilizer spreader.

For such ground pests as chinch bugs, sod webworms, and cutworms, chlordane or DDT can be used. For chinch bugs, use 2½ lbs of 5% Chlordane; or four ounces of 50% Chlordane Wetttable powder or four tablespoonfuls of 72% Chlordane Emulsifiable in 2½ gallons of water; or five pounds of 5% DDT Dust; or eight ounces of 50% DDT Wetttable Powder or one pint G.L.F. 25% DDT Special Concentrate in 2½ gallons of water per 1,000 square feet. Use half this quantity for sod webworms and cutworms. The Chlordane will also control ants in the lawn.

A newer material used in the control of ants, chinch bugs, white grubs, Japanese beetle, grubs and European chafer grubs is 5% Dieldrin Granular Insecticide. The particles are somewhat the size of granulated sugar and thus eliminate the objectionable characteristic dust associated with conventional dusts. One pound treats 700 square feet.

Of the lawn diseases, Brown Patch appears suddenly as discolored areas with a dark ring at the border where it is still active. Another is the Dollar Spot, a clearly-defined, bleached brown area of dead grass about the size of a silver dollar. Spraying with Tersan 75 every 7 to 10 days at one pound to 9,000 square feet under normal conditions, or two pounds under severe conditions, is effective. Tersan 75 is best applied with a power sprayer at 200-300 pound pressure using 75 gallons of water per 9,000 square feet or with a sprinkler apply 150 gallons of water per 9,000 square feet and agitate well.

Starting the New Lawn

Spring planting generally requires more attention for good results than does the fall-planted lawn, and it may be practical to resort to rye grass for an immediate turf cover and plan to get the permanent lawn started in August.

If a rye grass cover is selected, domestic rye is suitable for short season use. Sow six to eight pounds per 1,000 square feet. The seed bed should, of course, be well prepared, limed and fertilized for good, quick growth.

Using such fixed points as foundations, curb or sidewalk levels, grade the area in gentle slopes that will

lead water away from the house. If a great deal of earth moving is required, put the top soil in a pile to one side and shift the subsoil around. The top soil can then be spread evenly without mixing in the poorer soil. When grading, allow for the normal settling of loose soil—a six-inch layer of loose soil settles to about five inches.

In soil lacking in organic matter, peat moss at the rate of about three bales per 1,000 square feet will be helpful, or a ton of well-rotted manure per 1,000 feet and well worked into the top three or four inches can be used.

Most soils will need lime for good grass growth. Usually one 80-pound bag of ground limestone or one 50-pound bag of hydrated lime per 1,000 square feet is used.

At the same time apply three to four pounds of G.L.F. GroLeaf 5-10-5 fertilizer per 100 square feet. On poorer soils this should be increased. Apply half the fertilizer before spading or plowing, and the balance afterward. Rake the fertilizer well into the top two inches of soil and roll the ground in both directions, then rake

lightly to form a good seed bed.

Select the G.L.F. lawn seed that is best suited to your location—G.L.F. Sunny Mix for areas out in the full sun, G.L.F. Shady lawn mix for shaded areas. In New Jersey, G.L.F. Farmingdale mix is recommended.

Seeding at the rate of three to four pounds per 1,000 square feet with a seeder for even distribution or by hand broadcasting. To assure an even seeding put on half the seed working in one direction and the balance by working the area at right angles to the first sowing. Cover seed lightly— $\frac{1}{8}$ to $\frac{1}{4}$ inch by raking carefully—then roll the bed lightly. A gentle but thorough watering is applied and should be repeated often enough to prevent the ground drying out.

With a good stand of new grass established, it can be maintained by following the few simple rules for good lawn care.

The seed, fertilizers and tools for the job are listed in detail on the following pages. Your local G.L.F. Service Agency can supply your needs and is ready to help in every way to make your job an easier and more satisfying one.



G.L.F. Lawn Grass Mixtures



SUNNY LAWN—This mixture is the most popular in G.L.F. territory and meets the greatest variety of conditions. It contains a desirable quantity of several grasses to insure a permanent stand as well as early germination to prevent erosion.



N. J. No. 1 STANDARD (without clover)—This is substantially the same mixture as above except that white clover is deleted. This eliminates the possibility of weeds creeping in and eliminating clover—which is not a very competitive plant. This mixture will produce a mighty fine lawn under good management.



SHADY LAWN—This mixture is the next most popular in the G.L.F. series. As the name implies, it is better adapted to shady conditions by virtue of the addition of *Poa Trivialis*, to partly replace Kentucky Blue, and more of the shade tolerant Fescues.



FARMINGDALE MIX—This includes a variation of mixtures particularly adapted to certain local conditions peculiar to that Long Island area after which it is named. This mix should produce successful lawns under a great variety of conditions of soil acidity and fertility, yet thrive under shady or arid conditions. These mixtures are very popular in the southern area of G.L.F.



N. J. No. 1 STANDARD (with clover)—The mixture is very similar to Sunny Lawnglass with the addition of some white clover for summer greenness during hot, dry weather. In addition, the mixture includes bent grasses which, under exact and careful management, produce a fine lawn.

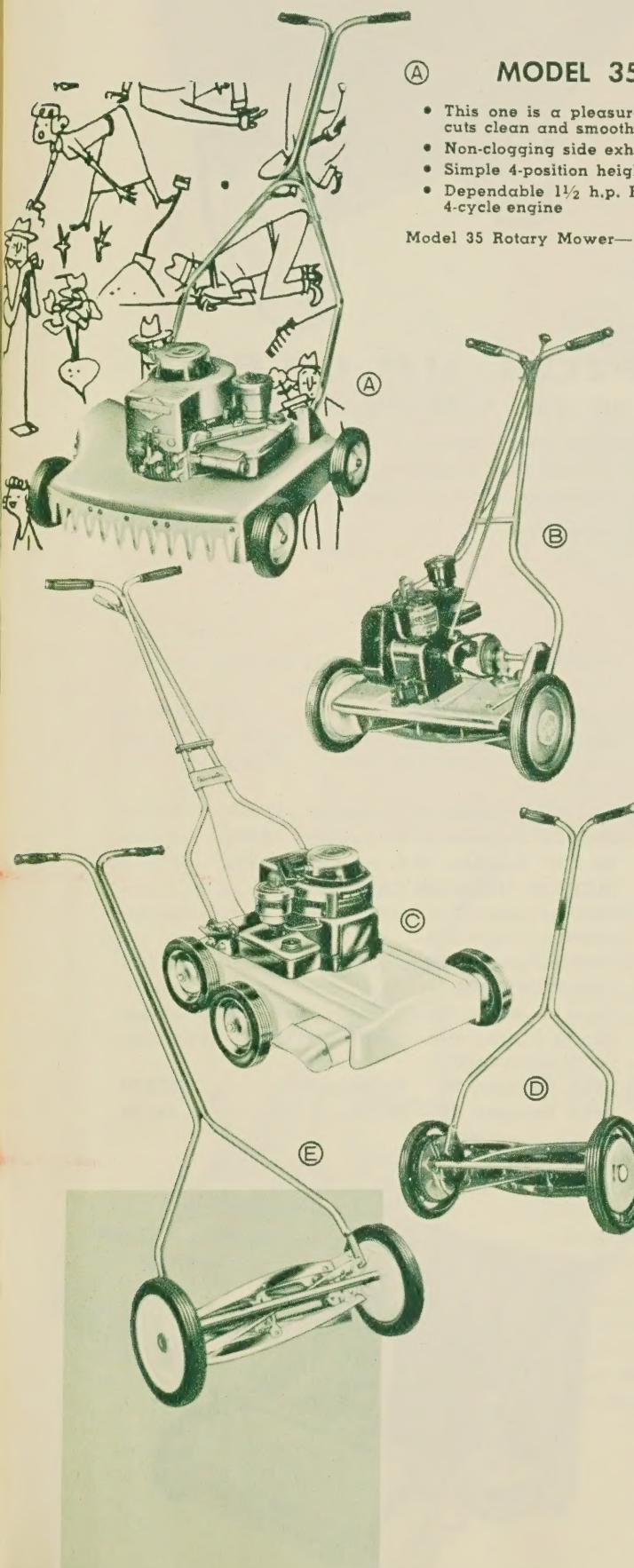
MERION BLUE GRASS—This variety is fast becoming very popular and except for price would have already replaced the blue grasses. It shows greater tolerance of leaf spot disease and its period of mid-summer resting is not as extensive. The variety is available at your Service Agency.

These are the most popular of our grass mixtures. Many special purpose mixes are also available. For example, a quick-grow and athletic mixture. Individuals desiring certain mixtures to meet difficult problems may contact their local service agencies for this service.

Mixtures available in 5, 10 and 25 pound bags.

MOW

the pleasant, power way...



(A) MODEL 35 ROTARY MOWER—18" 52-024

- This one is a pleasure to handle and cuts clean and smooth.
- Non-clogging side exhaust grass chute
- Simple 4-position height adjustment
- Dependable 1 1/2 h.p. Briggs & Stratton 4-cycle engine

Model 35 Rotary Mower—18" 52-024 \$82.95

- Automatic starter rewind
- Lightweight aluminum body
- Heavy steel guards for safety
- Designed with all the advantages of rotary power mowing

(B) FULL POWER REEL MOWING

Model 55 18" 52-020

- Easy, gradual starting so you won't tear up your lawn
- Throttle and clutch are right at your finger tips
- Smooth-working, dependable V-belt tightener clutch
- Rugged roller chain drive guarded for safety
- Easy to maneuver on 10" rubber tired wheels
- Lightweight, powerful 1 1/2 h.p. Briggs & Stratton engine
- Automatic rewind starter
- Five high-carbon, hardened steel cutting blades
- Simple, positive locking adjustment on V-belt, chain and stationary knife
- Handle catch for better mower control and storage

Model 55—G.L.F. 18" 52-020 \$102.95

Model 66—G.L.F. 21" 52-025 \$124.75

WORCESTER POWER MOWER 18"—A precision-made, smooth-cutting mower, convenient to work with and built to last. 1 h.p. Briggs & Stratton engine, recoil starter.

Worcester 18" Mower 52-018 \$109.50

WORCESTER POWER MOWER 21"—Easy to handle, wide-cut mower with 1 1/2 h.p. Briggs & Stratton engine. Free-floating handle for working comfort.

Worcester 21" Mower 52-019 \$133.75

G.L.F. ROTARY 21"—Model 45

- Takes a wide swath but inset wheels permit close trimming
- No windrowing from side-exhaust grass chute
- Four-position cutting height adjustments up to 3 1/2 inches
- Surprisingly easy to handle and maneuver
- Rugged but lightweight aluminum housing creates vacuum action to cut and trim clean
- Has 2 3/4 h.p. Briggs & Stratton engine with automatic rewind starter

G.L.F. Rotary—Model 45 52-033 \$112.95

WORCESTER ROTARY—Model 300R—18" cut

Newest design for smooth cutting, handling ease, close up trimming and to prevent scalping. Side chute with deflector prevents bunching and directs discharge. Offset wheels prevent scalping. Fingertip throttle for Briggs & Stratton 1.6 h.p. engine with recoil starter. Direct drive for one-piece spring steel blade. Five cutting heights.

(C) **Rotary Model 300R—18" cut** 52-035 \$90.95

SELF-PROPELLED ROTARY—Model 320R—20" cut

The easier way to tackle big areas and tough grass. Powerful rear wheel worm-gear drive for excellent traction and maneuverability. Clutch and speed adjustment at your finger tips. Includes also all the quality features of the 300 series. Powered with 2 3/4 h.p. Briggs & Stratton engine.

Self-Propelled Rotary—20" cut 52-040 \$149.50

G.L.F. HOMESTEAD 16"—Built for long service...tubular handle, replaceable stationary knife and four-reel spiders. Dust-proof oil cups.

Homestead 16" 52-002 \$19.60

Homestead 18" 52-003 \$20.85

G.L.F. YANKEE 14"—Low cost, ideal for small plot. Hardwood handle.

Yankee 14" 52-001 \$15.95

G.L.F. PILGRIM—Heavy-duty hand mower with high-carbon steel cutting blades, four-spider cutting reel. Top quality materials.

Pilgrim 16" 52-005 \$24.60

Pilgrim 18" 52-006 \$26.25

UNIVERSAL LAWN TRIMMER—The easier way to finish off the mowing job, by mowing close.

Trimmer 52-009 \$16.60

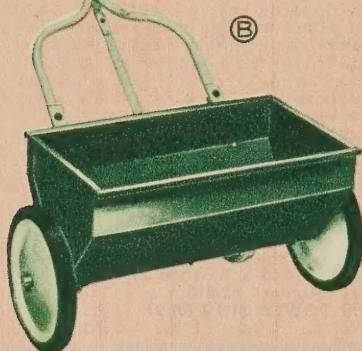
Trimmer with edger 52-010 \$18.65

GRASS CATCHER—For hand and power mowers, 16" to 21" sizes.

Grass Catcher 52-031 \$3.45

NEW BRENTWOOD—Light, 16", easy-rolling hand mower. High-carbon steel cutting blades, simple knife adjustment, precision ball bearings. Has 9" wheels with rubber tires.

(E) **Brentwood** 52-004 \$17.85



PICK-UP CART

THE IDEAL YARD AND GARDEN CART

Handles heavy loads easily. $2\frac{3}{4}$ cu. ft. capacity; tilts for easy loading or dumping without strain. Ruggedly constructed to last—reinforced top rim.

(A) Pickup Cart \$8.49

JACKSON CART—A heavy-duty $3\frac{1}{2}$ cubic foot capacity cart. Balanced for easy handling.

Jackson Cart 52-066 \$9.49

SPREADERS—Popular, rugged spreader with new sweep-feed agitators for even, accurate flow of materials.

(B) No. 2 20" Spreader, 40 lb. capacity 52-062 \$12.48
No. 1 15" Spreader, 20 lb. capacity 52-060 \$ 7.08
No. 3 30" Spreader, 70 lb. capacity 52-063 \$15.15
JACKSON SPREADER CART—A handy seed and fertilizer spreader with positive control for accurate distribution of materials.

(C) Jackson Spreader Cart 52-068 \$17.65

LAWN SWEeper—A faster, more thorough way to clean up leaves, clippings and litter. Catcher basket can be dumped end-over-end or removed. Folds compactly for storage.

(D) Lawn Sweeper, 20" 52-058 \$33.50
Lawn Sweeper, 28" 52-059 \$41.00





"KRASCO" SEEDER—A smaller, 1-pound capacity seeder for uniform, non-waste lawn seed sowing. Accurate, adjustable flow.

(A) Seeder 50-099 \$4.95

CYCLONE SEEDER—For even, non-wasting distribution of grass seed, grain, pellet and granular fertilizer. Oscillating fan and instant action feed control.

(B) Heavy Duty Combination Fertilizer and Seeder 50-100 \$4.70
Seed Sower 50-102 \$3.95

LAWN ROLLER—A water ballast roller to give the weight needed. Drum electrically welded. Low friction bearings for easier starting.

(C) Deluxe Roller No. 602—18 x 24" 52-056 \$24.28
Roller No. 701—14 x 24" 52-057 \$14.95
Roller No. 700—14 x 18" 52-064 \$12.95

AERATOR—The efficient way to get water and plant foods into the earth without injuring sods. 18 spoons dig out sods firmed by water ballast roller.

(D) Roller Aerator 52-286 \$33.50
Fork Aerator 52-285 \$ 7.12





HOME WHEELBARROW—Unbelievably light, with its generous 3 cubic foot capacity. Rugged steel tubing handles, rolled reinforcing in tray edge. Easy pushing on a 10-inch rubber tire that won't cut in.

(A) Home Wheelbarrow 51-306 \$9.95

THE EXTRAS



to make a better job
... EASIER

WHIZ—Here is a light-weight yard barrow even the youngsters and women folks can handle. Heaped capacity, 3 cubic feet. Soft-tired 10-inch wheel.

(B) Whiz Wheelbarrow 51-305 \$13.60



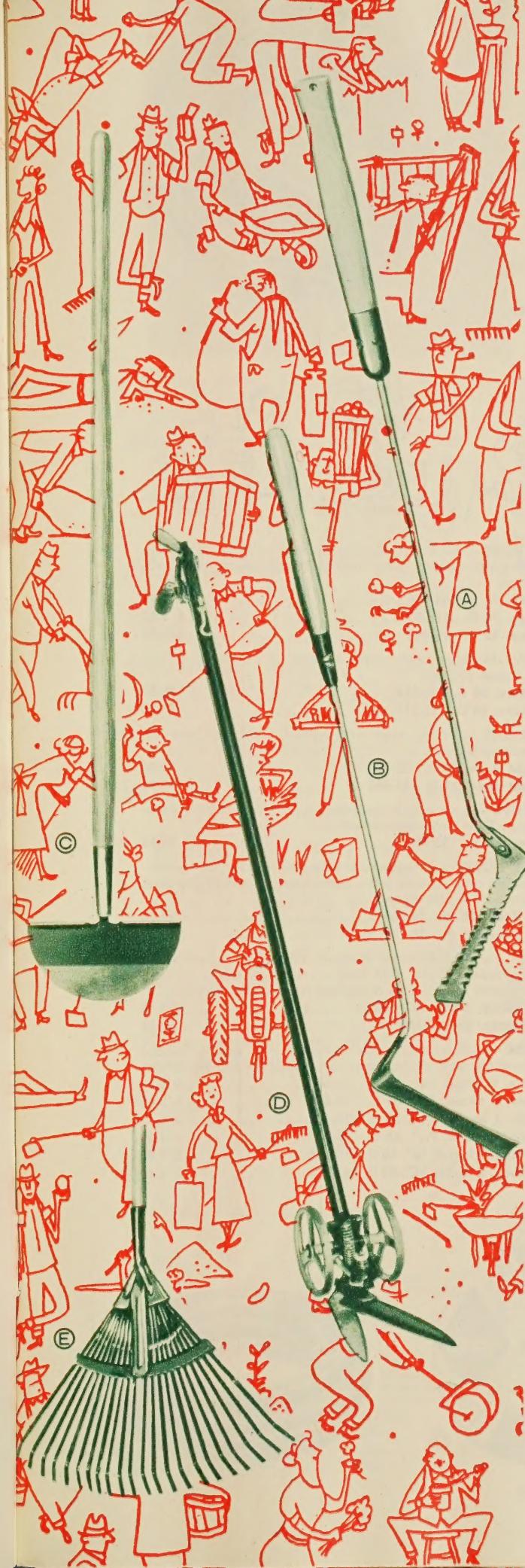
R4 WHEELBARROW—A popular heavy-duty barrow for all types of garden and farm work. Rugged hardwood frame, durable steel tray, wheel guard for easier dumping. Capacity, 4 cubic feet.

(C) R4 Wheelbarrow 51-310 \$28.82

GARDEN WHEELBARROW—Made with non-warping marine plywood. Removable sides. Sturdy.

Garden Wheelbarrow 51-307 \$23.25





(A) SERRATED GRASWHIP

Double-edge, sure-cutting whip to clean out rank, tough growth with ease. Hand-fitting grip, springy steel handle and 9-inch serrated blade.

Graswhip 52-322 \$2.25

(B) GRASS WHIP

A new whip with concave double-blade. Sturdy shaft and smooth, sure-grip handle.

Grass Whip 52-320 \$1.85

(C) LAWN EDGER

A keen-edged tool with turned top to protect shoes. Convenient 4-foot handle.

Edger, 9" Blade 52-270 \$2.59

WHEEL-TYPE EDGER—Serrated, high-carbon, revolving blade, guide wheel for proper spacing, foot pedal for easier cutting of tough sod. Comfortable 50" length.

Little Giant Edger 52-275 \$3.30

GRASNIP No. 34—Pruner and grass shears in one tool. Spring holds blades in perfect balance without adjustment. Cutlery steel 6" blade notched for pruning.

Grasnip No. 34 52-309 \$2.25

GRASNIP No. 4—Moderately-priced quality tool. Prop-blades provide ground clearance for hands.

Grasnip No. 4 52-310 \$1.85

GRASS HOOK—Designed for low, clean cut with 15½-inch cutlery-steel tempered blade. Polished maple handle.

Grass Hook 52-311 \$1.25

(D) DELUXE MIRACLE—There is no back-ache in the trimming job with these professional long-handled shears.

Deluxe Miracle Shears 52-048 \$5.65

ELECTRIC TRIMMER AND EDGER—Does either job quickly and almost without effort. Has interchangeable edger head.

Kaufman Trimmer-Edger 52-012 \$41.95

(E) STEEL LAWN RAKE

Solidly anchored, spring-steel teeth do a thorough job.

STR 18" Rake 52-247 \$2.19

STR 24" Rake 52-248 \$2.59

CRAB GRASS RAKE—Designed to get at this lawn pest to help you clean it out.

Crab Grass Rake 52-250 \$2.49

BAMBOO LAWN RAKE—Tough but non-digging rake for regular lawn care.

Bamboo Rake 24" 52-245 \$2.00

Bamboo Rake 10" 52-25275

Bamboo Rake 18" 52-244 1.50

Bamboo Rake 30" 52-246 2.75

WOOD LAWN RAKE—An excellent dried birch rake for coarse materials.

Wood Rake, 12-tooth 52-243 \$1.45

ALUMINUM BOW RAKE—A long-life, coarse-material rake with 28 teeth. Has long, steel neck and three aluminum bows for added strength.

Aluminum Bow Rake 52-249 \$2.23

MIRACLE GRASS SHEARS

Easy push-cut action that does not blister or tire your hands. Forged steel. Keeps an edge.

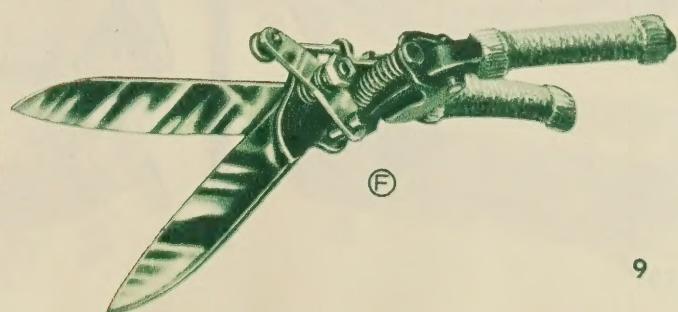
(F) No. 2 Miracle with Rubber Hand Grip 52-049 \$2.75

No. 1 Miracle 52-053 \$2.50

No. 10 Miracle 52-047 \$1.67

GRASS HOOK V-15—Scythe-type hook with unbreakable shank and contour hand grip. Blade length, 11 inches.

Grass Hook 52-312 \$1.60



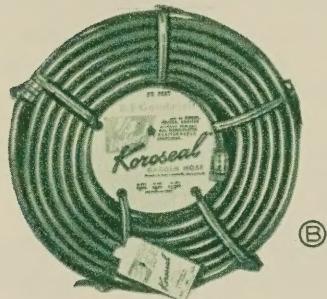
Life Giving Water
 Where you want it—
 when it is needed.
 The way it will do most good.



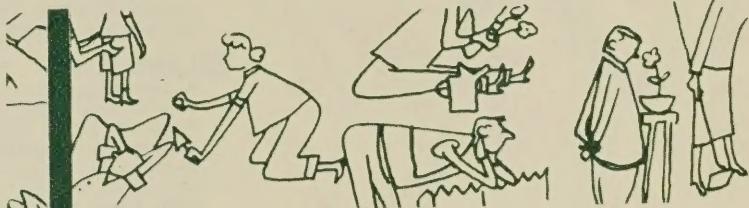
(A)

50' CLEAR PLASTIC $\frac{1}{2}$ " HOSE ... Lightweight—tough—long life—10-year guarantee.

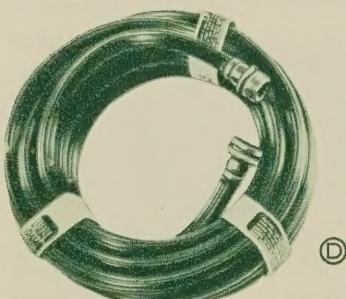
(A) 52-153 50 ft. length \$5.60



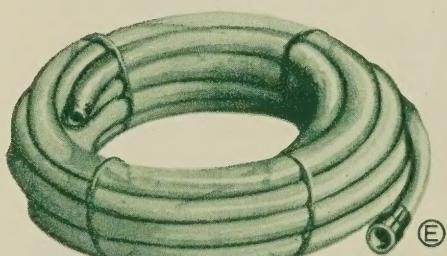
(B)



(C)



(D)



(E)



(F)

KOROSEAL HOSE—The finest, 10-year guarantee hose available. Exceptionally light weight, sun- and abrasion-resistant, tough. With couplings.

(B) Koroseal Hose, 75 ft. 52-096 \$13.85
 Koroseal Hose, 50 ft. 52-097 \$ 9.80
 Koroseal Hose, 25 ft. 52-098 \$ 5.75

PLASTI-FLOW—Medium price good service $\frac{1}{2}$ " hose in tough, light-weight green plastic.

(C) Plasti-flow Hose, 50 ft. 52-116 \$ 5.50
 Plasti-flow Hose, 25 ft. 52-117 \$ 3.20

FEATHERWEIGHT—A vinyl hose with ribbed, scuff-resisting surface. Five year guarantee.

(D) Featherweight Hose, 50 ft. 52-090 \$4.95
 Featherweight Hose, 25 ft. 52-091 \$2.95

QUALITE HOSE—A tough, translucent $\frac{1}{16}$ " hose with replaceable couplings. Five year guarantee.

(E) Qualite Hose, 50 ft. 52-155 \$5.25

MULTI-SPRAY HOSE—An improved rain-like spray for gentle, thorough soaking over a wide area. Hundreds of specially-spaced openings distribute water evenly.

(F) Multi-Spray Hose, 50 ft. 52-128 \$3.95
 Multi-Spray Hose, 25 ft. 52-129 \$2.39

TRIPLE TUBE—For sprinkling or soaking. Triple tube always lies flat. Spray openings in one side only ... delivers even, soaking spray; turned over it provides a perfectly-controlled soaker.

(G) Triple Tube Spray, 50 ft. 52-119 \$4.95
 Triple Tube Spray, 25 ft. 52-118 \$3.25

RUBBER HOSE—High quality, popular rubber one- and two-braid hose for general service on home and farm grounds and buildings.

(H) Akron—Green, 1 braid, $\frac{5}{8}$ ", 50 ft. 52-085 \$ 9.25
 Akron—Green, 1 braid, $\frac{5}{8}$ ", 25 ft. 52-086 \$ 5.45
 Signal—Black, 1 braid, $\frac{9}{16}$ ", 50 ft. 52-156 \$ 7.45
 Signal—Black, 1 braid, $\frac{9}{16}$ ", 25 ft. 52-157 \$ 4.20
 Maxecon—Black, 2 braid, $\frac{5}{8}$ ", 50 ft. 52-125 \$11.95
 Maxecon—Black, 2 braid, $\frac{5}{8}$ ", 25 ft. 52-126 \$ 6.45



(G)



(H)



Garden Hose Hanger

Keeps hose in better shape for long service and where you want it—easy to carry and store.

(A) Hose Hanger 52-113.....\$.60

HOSE MASTER—The new pistol-grip, water saving, precision-made nozzle. Adjustable spray nozzle can be locked to any selected spray. Offers better, easier control.

(B) Hose Master No. 480 52-160.....\$1.50

HOSE MASTER KIT—Includes hose master nozzle and 24-inch steel holding stake for thorough soaking jobs.

Hose Master Kit 52-161.....\$2.95

AVON OSCILLATING SPRINKLER—Adjustable jet controller water spray of rust-resisting materials throughout. Covers rectangular area up to 2400 square feet.

(C) Oscillating Sprinkler 52-077.....\$14.95

BRASS KING NOZZLE—Fits all standard couplings; adjusts from spray to full stream.

(D) Nozzle 52-105.....\$.85

NOZZLE—A precision, top-quality, all-purpose nozzle.

(E) No. 161 Nozzle 52-192.....\$1.20

No. 155 Nozzle 52-193.....\$1.72

DEW-ALL NOZZLE—A non-leak, all-purpose nozzle for all standard hose couplings.

(F) Nozzle 52-108.....\$1.95

DELUXE RING SPRINKLER—Fountain type, all-brass sprinkler delivering a thorough, soaking spray.

(G) Ring Sprinkler 52-084.....\$2.26

FLAT SPRAY—A fine, gentle spray for flowers and foliage. Fits standard coupling.

Flat Spray 52-080.....\$.77

HOSE REEL—Easy rolling, 150-foot hose capacity reel of sturdy construction and enamel finished.

Hose Reel 52-114.....\$7.45

MODEL "K" SPRINKLER, SUNBEAM—The popular revolving sprinkler, adjusts for distance, volume and spray type.

(H) Model "K" 52-073.....\$9.75

Model "D" 52-075.....\$5.95

Model "H" 52-074.....\$7.95

FLOWER IRRIGATOR No. 400—Gentle, fine droplets will not damage delicate blooms. Irrigates area 5 to 50 feet in diameter.

(I) Flower Irrigator No. 400 52-078.....\$6.95

Couplings No. 226—

$\frac{7}{16}$ " removable coupling 52-170.....\$.80

(J) $\frac{1}{2}$ " removable coupling 52-171.....\$.80

Mender No. 234—

$\frac{7}{16}$ " removable type 52-172.....\$.63

$\frac{1}{2}$ " removable type 52-173.....\$.63

Long Grip Clincher Coupling—

(K) $\frac{7}{16}$ " 52-176.....\$.45

$\frac{1}{2}$ " 52-177.....\$.45

$\frac{5}{8}$ " 52-107.....\$.45

Clincher Couplings, Female—

$\frac{7}{16}$ " 52-180.....\$.29

$\frac{1}{2}$ " 52-181.....\$.29

$\frac{5}{8}$ " 52-182.....\$.29

Nipple or No. 18 Bushing—

$\frac{3}{4}$ " HT male to $\frac{3}{4}$ " PT female 52-190 \$.51

$\frac{3}{4}$ " 1 PT male to $\frac{3}{4}$ " HT female 52-191 \$.51

Rubber Hose Washers—

(L) One dozen 52-106.....\$.10

"Y" Hose Connection—

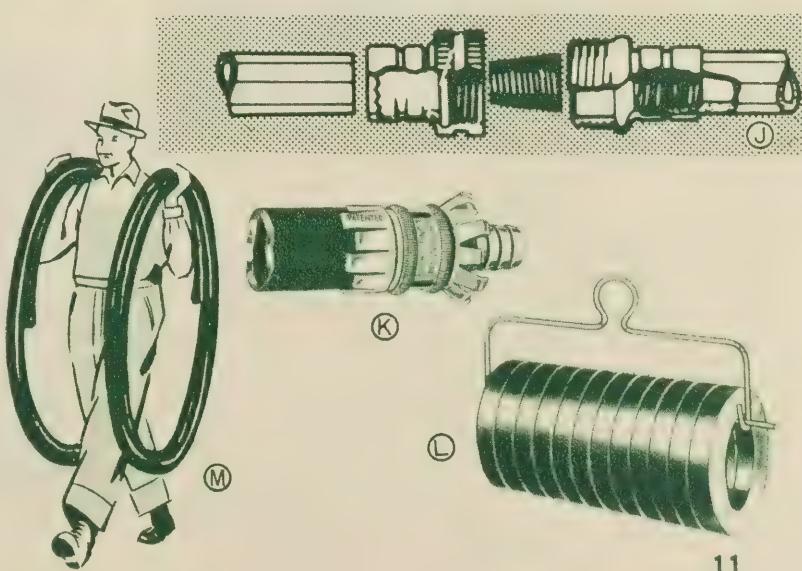
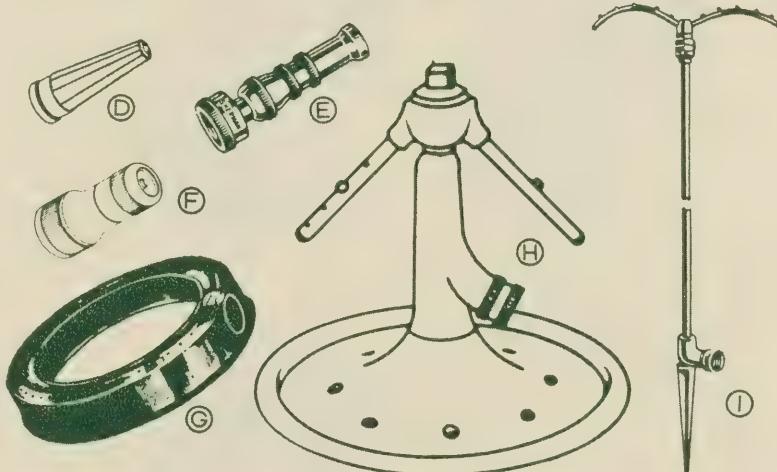
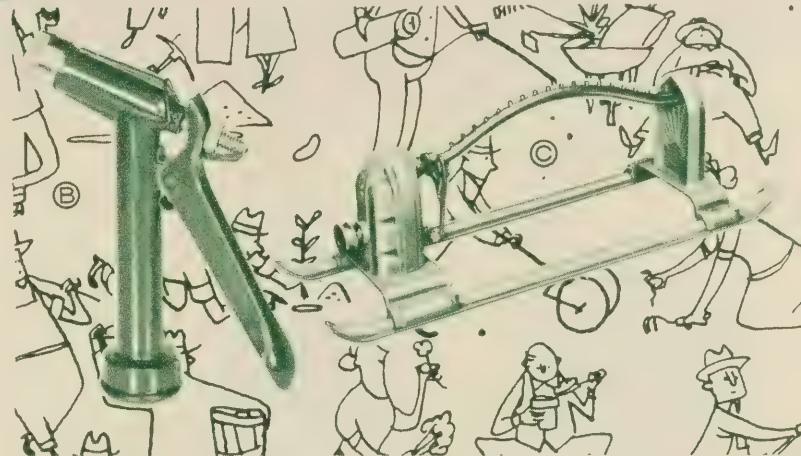
$\frac{3}{4}$ " fits standard coupling 52-115 ... \$.75

CARLON PLASTIC PIPE—An inexpensive, long-life pipe for extending underground water lines to distant garden areas or for lawn irrigation or sprinkler systems. No special tools needed for installation.

(M) $\frac{1}{2}$ " Plastic Pipe—per ft. 73-001.....\$.11

$\frac{3}{4}$ " Plastic Pipe—per ft. 73-002.....\$.14

1" Plastic Pipe—per ft. 73-003.....\$.21



PAINT UP
THIS SPRING

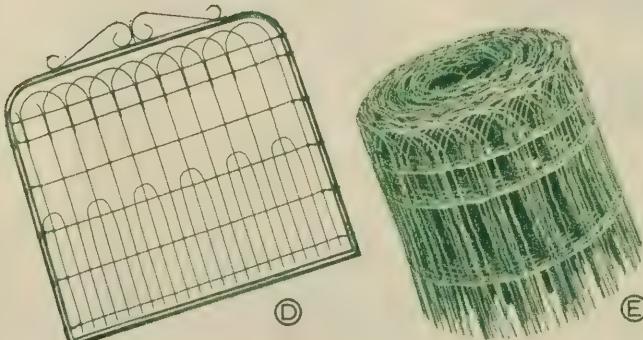
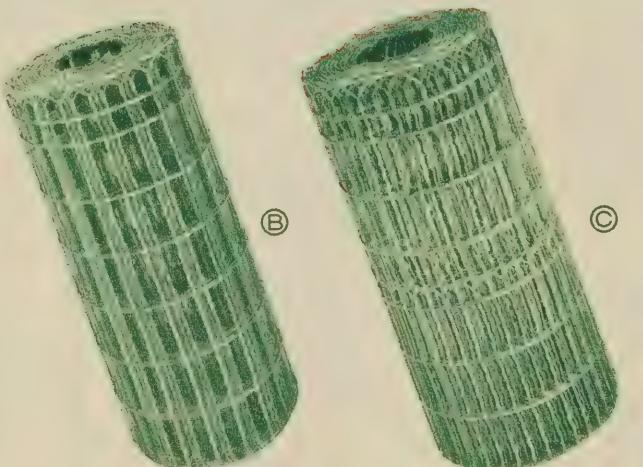
G.L.F. Unico Paints
are Ideal!

Beautiful!

Rustic fencing that is economical and long lasting. Wonderful landscaping touch and a practical fence, too. Life-giving Pentra preservative is forced under pressure, deep into the wood to stop termite and rot damage. It lasts up to five times longer than other types of wood fence.

The Koppers Ruralife fencing harmonizes nicely with any type home. Pleasing in its natural shade it can be painted after the first season, if desired. Easy to erect.

(A) Two-rail 8-ft. sections with 6-ft. posts \$4.85 to \$5.25
price varies depending on freight zone.



LAWN AND GARDEN FENCE—A really serviceable and attractive fencing for use anywhere in home grounds. Stretches tight with elasticity to withstand normal service and retain its neat appearance. Hot zinc coated over copper-bearing steel. Single and double scroll fencing in popular heights. Single scroll, 11 gauge, 100-foot rolls.

(B) 7-36" Single scroll	69-176	\$17.90
8-42" Single scroll	69-177	\$20.45
9-48" Single scroll	69-178	\$22.80
Double Scroll fence—11 gauge—100-foot rolls.		
(C) 7-36" Double scroll	69-179	\$24.80
8-42" Double scroll	69-180	\$28.25
9-48" Double scroll	69-181	\$31.50

LAWN GATES

Ruggedly constructed, easy-swinging gates that will not sag. Galvanized steel tube frames supplied with heavy zinc-coated ornamental fence filler. Fittings for wooden posts; hangers for steel posts available if desired.

(D) 3' wide x 36" high	69-851	\$7.05
3½' wide x 36" high	69-854	\$7.35
3½' wide x 42" high	69-855	\$7.60

FLOWER BED BORDER—Hot zinc coated over genuine copper-bearing steel.

(E) 16" scroll border; 100-foot roll	69-190	\$ 9.75
22" scroll border; 100-foot roll	69-191	\$12.35

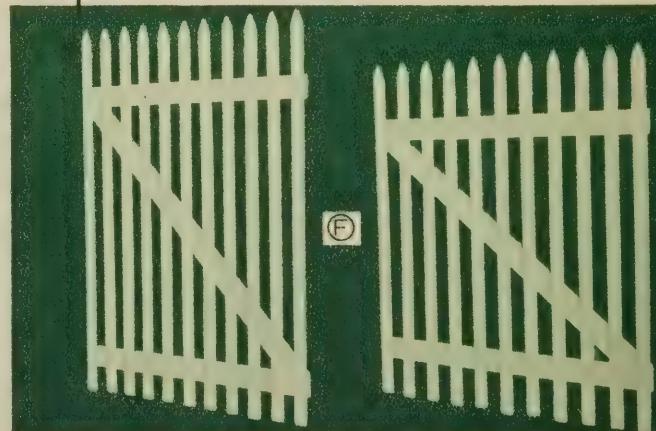
PICKET GATES—White picket gates, 36" width and sturdy built with select dressed lumber. Mounting hardware included.

(F) 3' x 36" high	66-141
3' x 42" high	66-142
3' x 48" high	66-143

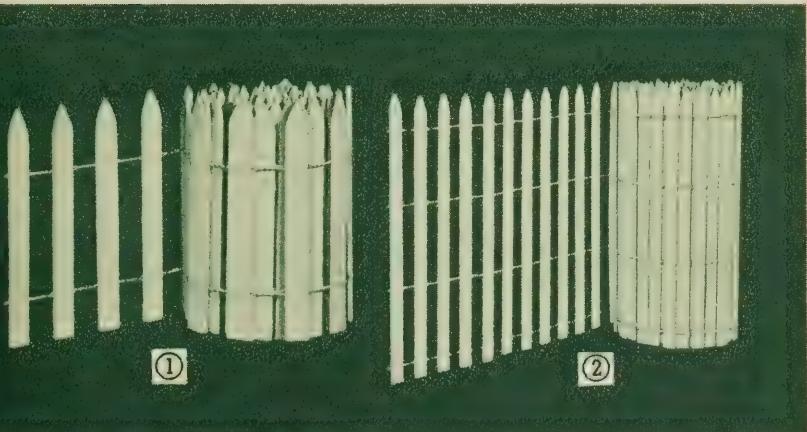
WHITE PICKET FENCE—A nice looking, easy to erect white picket fence for line fence or to enclose garden, lawn or play areas. Pickets are 1½" x 7/16" dressed lumber, spaced 2 1/4" apart and firmly bound with wire. Easy to handle rolls.

(1) 18" Flower Bed Guard; 25 ft. length	66-130
(2) 36" Garden Fence	50 ft. roll 66-131
42" Garden Fence	50 ft. roll 66-132
48" Garden Fence	50 ft. roll 66-133

PRICES MAY VARY WITH FREIGHT ZONE.
CHECK LOCAL SERVICE AGENCY.



PICK MATTOCK No. 2 —Combined pick with 3½" cutting blade. Made of forged steel.	
(A) 50-292	..... \$3.18
PICK HEAD —A 6-pound, 23" head of top quality forged steel.	
50-290	..... \$2.90
TAMPER SHALE BAR No. 49 —Tamping head and chipper blade.	
50-277	..... \$7.65
POST HOLE DIGGER —Sturdy, malleable frame. 6" x 9" replaceable, high-carbon steel blades for maximum stiffness and durability. 4-foot Northern Ash handle.	
(B) 50-283	..... \$4.75
AUGER HOLE DIGGER —A six-inch twist-type with interlocking steel blades and smooth hardwood crossbar handle for good leverage. 4 feet long.	
50-295	..... \$4.80
MAUL —Well balanced, bell shape for greater striking surface and rugged hardwood handle. 12 pound.	
50-298	..... \$4.20
30" GRASS SCYTHE —A ribbed blade, balanced honed and carefully ground to cut through heavy grass with ease.	
(C) 50-362	..... \$3.00
WELDED 2-PIECE SCYTHE —A top quality blade with three pieces welded for ruggedness in handling the toughest cutting.	
50-366 32" blade	..... \$3.20
50-368 34" Golden Clipper	..... \$3.30
BUSH SCYTHE —A heavy-duty 24-inch scythe for cutting bushes and underbrush.	
(D) 50-364	..... \$3.00
WEED SCYTHE —A ribbed back, 26" blade with polished cutting edge for clearing out weedy growth.	
50-365	..... \$3.00
AUSTRIAN PATTERN SCYTHE —A lighter weight, keen cutting 30" scythe for long service.	
50-369	..... \$3.90
SNATHS —Finest quality select second growth White Ash. Shaped so flat surfaces engage scythe steel.	
(E) 50-374 Bush Snath	..... \$3.30
(F) 50-372 Grass Snath	..... \$2.97
BUSH HOOK —An effective tool to trim and clean out bushes in hard-to-reach places. Hardwood handle 12½" blade.	
50-376	..... \$4.25
GRASS HOOK —A balanced, keen-cutting hook for effective, close cutting. Comfortably-shaped handle.	
50-375	..... \$.75
50-386	..... \$1.98
SCYTHE STONES —The right grit and shape for perfect sharpening of scythes and hooks and other cutting-edge tools.	
(G) 50-380 10" stone	..... \$.46
50-381 12" stone	..... \$.60
(H) 50-382 14" stone with handle	..... \$1.00
SHARPENING FILE —Tapered 14" stone with wood handle for putting a keen edge on lawn mower blades, scythes and other cutting-edge tools.	
(I) 50-383	..... \$1.65



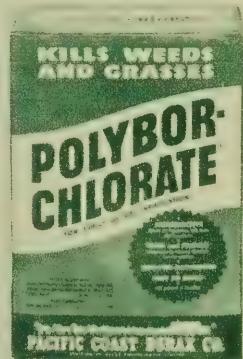
WEED KILLERS

	Material	Rate	Time to Apply
LAWNS Broad-Leaved Weeds	G.L.F. Weed Killer MCP or G.L.F. 2,4-D Weed Killer	1 teaspoonful per 100 sq. ft. Usually applied in 1 quart of water	When annual weeds are small or perennial weeds are just starting to grow. Apply two days after mowing.
Crab Grass and Broad-leaved Weeds	Improved Weedone Crab Grass Killer (Potassium Cyanate & MCP)	4 teaspoonfuls in 1 gallon water per 150 sq. ft. 8 teaspoonfuls in 1 gallon per 150 sq. ft.	When crab grass is in seedling stage. If crab grass is mature.
WOODY PLANTS Poison Ivy Brush in fence rows, etc.	ACP Poison Ivy Killer (8 oz. to 3 gal. water) or Weedone Brush Killer 32 or Ammate	2½ tablespoonfuls per 1 gallon of water plus 2½ tablespoonfuls of fuel oil or Diesel oil per 1 gallon of water. ¾ lb. per 1 gallon of water.	When plants are actively growing.
STRAWBERRIES	Crag Herbicide 1	1 tablespoonful per gallon of water treats 400 sq. ft.	Newly-planted beds—as soon as plants start growth and before weeds are visible—repeat as needed. Established beds—as soon as uncovered in the spring and before fruit forms. Also after harvest. In any case it will not be effective if weeds are over ¼" high. Larger weeds should be pulled or hoed from the bed.
ASPARAGUS	Crag Herbicide 1 or ACP Garden Weeder	1 tablespoonful per gal. of water treats 400 sq. ft. ½ pt. per 1,000 sq. ft.	As soon as possible after harrowing up the asparagus bed in the spring and again at the end of the cutting season after the bed has been harrowed thoroughly.
Lima, Snap, Wax and Soy Beans, Corn, Cucumbers, Peas, Pumpkins, Squashes, and Watermelons.	ACP Garden Weeder	1 pt. in 4 gallons water per 1,000 sq. ft.	Soon after planting (before crops emerge) spray evenly over seeded area.
SOIL STERILIZATION Driveways Paths Tennis Courts Around Buildings	Polybor Chlorate or Karmex W	2-4 lbs. per 100 sq. ft. 1-lb. per 1,000 sq. ft.	Early in spring when vegetation is growing vigorously. Apply in enough water to give good coverage. Never apply near the roots or under the branches of desirable plants.

- (A) Weed Killer—Sodium Arsenite 1 qt. can
1 gal. can
- (B) Polybor-Chlorate 4 lb. box
- (C) Brush Killer 32 8 oz. can
- (D) Weedone, Improved 1 qt. can
8 oz. can
- (E) Crag Herbicide 1 4 oz. canister
- (F) Ammate 6 lb. bag
2 lb. bottle
- (G) Crabgrass Killer Weedone Improved 26 oz. can
6½ oz. can
- (H) ACP Garden Weeder 1 qt. bottle
½ pt. bottle
- ACP Poison Ivy Killer 8 oz. canister
- (I) G.L.F. 2,4-D Weed Killer ½ pt. bottle
- Karmex W 2 lb. canister
- (J) Weed Killer MCP (G.L.F.) ½ pt. bottle



(A)



(B)



(C)



(D)



(E)



(F)



(G)



(H)



(I)



(J)

TREES, SHRUBS and FLOWERS

on the home grounds

Keep an eye on the future when you select shrubs, vines and trees for home ground and foundation plantings. Select those whose mature size accomplishes the landscaping effect desired rather than for immediate result.

Planting can be done successfully in spring or fall.

Like any other growing plant, they need good soil for a healthy start in new locations. Organic matter is often missing and can be supplied by mixing peat moss about $\frac{1}{4}$ by volume to $\frac{3}{4}$ soil—the peat mixes better if wet. In a shrubbery bed a 2 or 3 inch layer can be spaded into top 8 to 12 inches of soil.

PLANTING



With bare rooted shrubs or vines prepare a hole large enough to spread the roots completely. Set the plant at the same level it was growing originally. Fill around the roots with fine top soil, tamping it in place with a pick handle or similar tamping tool. Fill to a saucer shape to drain water to the roots.

With balled roots, have 6 or more inches clearance around the ball. Put in a layer of good top soil and set the plant in place, the burlap loose, tamping it into the soil without disturbing the ball. Fill the hole about half way and water thoroughly. When this has soaked in, finish filling, and mulch with peat moss or straw.

FERTILIZATION

A good complete fertilizer such as G.L.F. GroLeaf 8-4-4 can be applied on the mulch and rain will wash it through to the soil. When using organic fertilizer such as nitroorganic or bone meal etc., work these into the soil before applying mulch.

PRUNING NEW PLANTINGS

Pruning should maintain rather than disfigure the natural plant shape. Bare rooted shrubs should be cut back one third to one half the foliage surface when planting. If transplanted with a large ball no pruning may be needed beyond removing broken or interfering branches. Vines are handled in the same manner.

With deciduous trees, thin out the head, cutting lateral branches but not the main leader. Eliminate crowding branches, those that interfere and narrow crotches.

Evergreens seldom need pruning and cutting leader branches will disfigure the natural shape.

Once a planting is established, pruning is governed by the landscape effect for which it was selected, such as early or late bloom, stem coloration or fruit.

Clipping hedges should be done sparingly. A trimming in June is generally enough although some rapid

growing hedge plants may need more frequent clipping—generally in May, late June and late July to retain the neat shape.

SHADE TREES

Periodic feeding means better growth, appearance and resistance to disease and insects. An application of G.L.F. GroLeaf 8-4-4 for evergreens or high Organic 10-6-4 should be applied in October. The tree will make use of some of this before the ground freezes with the rest available in early spring when growth starts. Application can be made in early March and April if not in the fall.

As a general rule use from 2 to 5 pounds of commercial fertilizer per inch of tree trunk diameter. This should be applied in a circle whose outer margin is out to the tips of the longer branches and about half the distance from the trunk. Make holes with a crowbar or pipe about 2 to 3 feet apart and 18 inches deep around the tree. Mix the fertilizer needed with about twice the volume of top soil and tamp this into the holes. Follow this with a good watering.

FLORAL PLANTINGS

Annuals will grow and bloom well in any good garden soil. Quick growing, they require fertilizer and moisture. Where sub soils or poor soil lacking in organic matter is encountered use well-rotted stable manure, chicken manure or prepared sheep or cow manure. The latter two are applied at the rate of 1 pound per 2 square feet. As much stable manure as can be worked into the soil can be used.

This treatment will help modify the soil texture but it is desirable to add more readily available fertilizer. GroLeaf 5-10-5 is a good commercial plant food for this purpose. Complete directions for proper rates of application are printed on all bags of G.L.F. plant foods.

Transplanting most annuals results in better plants and for this reason they are sown first in seed beds, then moved to permanent places. Mellow soil, well-prepared and with reasonable wind protection to prevent drying out, makes an ideal bed. Frequent light watering of the seed bed is more effective than drenching the bed at longer intervals.

Transplanting only strong, selected seedlings will pay in vigorous growth and better bloom. Beds near the house may be sheltered somewhat from natural rainfall and occasional watering is advisable. In well-prepared retentive soil of good depth, weekly watering will suffice except in the driest season. Gravelly and sandy soils lacking in organic matter dry out more rapidly and watering every other day may be required. Atmosphere and soil conditions locally will have to be taken into account and watering schedules regulated accordingly. Too much watering encourages shallow root growth with possible injury during dry periods.



NEWMAN HEDGE SHEAR

A high-quality forged 8" shear with sturdy hardwood handles for clean-cut pruning and easy use. Comfortable grips and balance.

(A) Newman Hedge Shear 52-051.....\$2.80

SKIL TRIMMER, ELECTRIC—A pleasant way to trim shrubs, bushes and hedges. Faster, easier, neater and balanced to avoid fatigue. Cuts clean. Top handle adjusts for side trimming. A 12" tool steel cutter bar does level cutting, shaping and beveling with accuracy. The handle can be replaced with a $\frac{3}{8}$ " pipe to reach high spots. Single pole toggle switch at your finger tips. Powerful universal motor for AC or DC operation. Overall length 23 inches, weight 6 lbs.

(B) Trimmer 52-070.....\$49.75

KAUFMAN TRIMMER, ELECTRIC—Double-action 12" cutting blade for faster, cleaner trimming. Both blades move in opposite directions. Head adjusts for left or right hand operation. Powered with universal motor for AC or DC. Weight: $5\frac{1}{2}$ pounds.

Trimmer 52-072.....\$44.45

HEDGE TRIMMER, Village Blacksmith—Finest hand-trimmer with exclusive Belleville spring control that assures good cutting contact the full blade length. Eight-inch blade, serrated for sure cut, sharp notching for heavy pruning. Ten-tite ferrules and strong Ozark Hickory contour-grip handles.

Hedge Trimmer 52-303.....\$3.95

HEDGE TRIMMER, Village Blacksmith—Moderately-priced tool for good service on home grounds. Serrated, sharp cutting edge. Notch for heavy pruning. Ruggedest Rock Ash handles and Belleville washer for full blade cutting contact.

Trimmer—8" blade 52-304.....\$3.50

Trimmer—6" blade 52-305.....\$2.75

HEDGE TRIMMER, Keiser—A practical 9" blade tool, balanced for easy handling. A clean-cutting trimmer, notched for heavier pruning. Comfortable hand-grip long enough for good cutting leverage.

Trimmer 52-046.....\$3.75

COLEMAN PRUNERS—A rugged, all-steel pruner made from one-piece chrome alloy steel, heated and drawn for extreme durability. Comfortable wood grips are on to stay and positive stop on the hook prevents banging knuckles. Hook and blades tempered and hardened, then ground to bevel for clean slicing cuts to $1\frac{3}{4}$ ". Will not slip. Sharpen with file.

(C) Pruner—20" handle 52-132.....\$5.25

(C) Pruner—25" handle 52-131.....\$5.75

Pruner—30" handle 52-130.....\$5.95

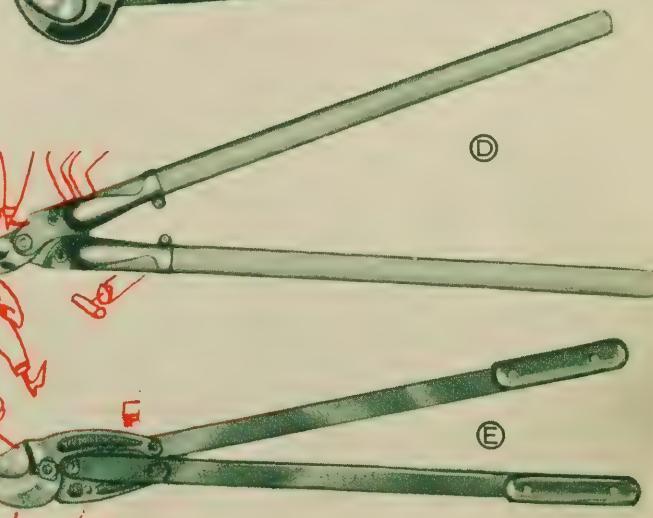
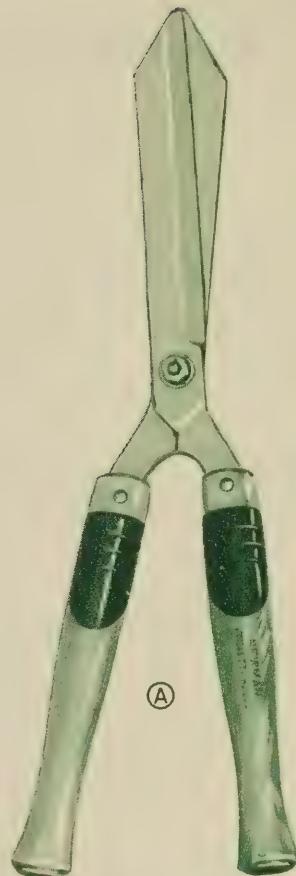
LOPPING SHEAR—28S—A real work-saver for the home orchardist and where small trees and shrubs need to be pruned. Cuts up to $1\frac{3}{16}$ " limbs easily. Tough hickory handles approximately 28 inches. Narrow head to reach into difficult crotches. Made of alloy steel sharpened for clean, quick-healing cuts.

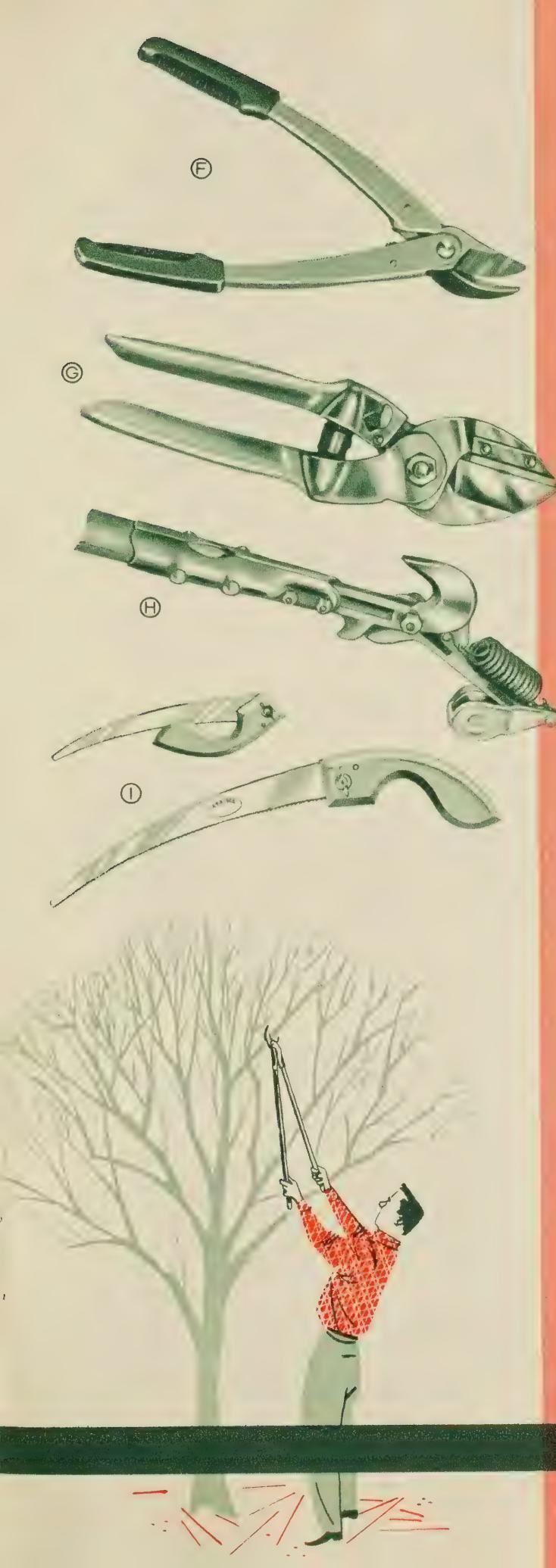
(D) Lopping Shear 52-400.....\$6.45

HEAVY-DUTY BRUSH CUTTER—A rugged cutter with a power-boost feature adds up to 80% more power to handle tough cutting. Releasing pressure and slipping handles back to canter notch in the slot increases your power when needed. Forged blades of alloy steel. All steel, heat treated handles for strength.

(E) Cutter—27", $1\frac{1}{2}$ " capacity 52-410.....\$ 9.90

Cutter—34", 2" capacity 52-411.....11.70





PRUNER—A new, light-weight pruner with the cutting power of heavier tool. Pruner is 13" long, weighs 15 ounces. Comfortable plastic hand grips. Narrow head to get in close and make clean, quick-healing cuts. Ideal for the lady gardener.

(F) Pruner 52-401 \$4.95

POINTCUT PRUNERS—A professional tool selected by orchard and nurserymen. Cuts limbs up to 1 1/4" with ease. Two sharp blades assure a clean cut without damage. Properly tempered and ground blade with all-steel, heat-treated handles for extra strength.

Pruner—20" handle 52-405 \$8.70

Pruner—24" handle 52-406 \$8.90

POLE PRUNING SAW—Easier, safer cutting of high limbs or branches. Top quality 16" curved blade saw. Cuts fast without binding. Adjusts to three cutting angles. Large hook on the socket for clearing cut.

Pole Saw Head 52-418 \$4.30

Pole 12" solid 52-419 \$3.50

ANVIL CUT PRUNER—A big improvement for easier, less tiring pruning. Perfectly balanced. Anvil-type pruner with thicker cutting blade to eliminate spreading when cutting large branches. Plastic hand grips, thumb lock prevents pinching hands.

(G) Anvil Cut Pruner 8" 52-425 \$2.95

LONG ARM PRUNER—A rugged, light-weight cutting head of high-quality alloy tool steel that holds its cutting edge. Two 6-foot section handles with long arm and pulley to give you reach and good cutting leverage. Capacity: 1" green wood.

(H) Long Arm Pruner, 12 foot 52-415 \$14.95

SINGLE CUT PRUNER—A good lightweight pruner for general use.

Single 8" 52-431 \$1.90

Single 9" 52-432 \$2.05

SHEAR TYPE PRUNER—A comfortable one-hand pruner with the clean-cutting twine blades sharpened for a clean, close cut. Hand grips are plastic; positive thumb lock. Alloy steel blades hold their keen cutting edge for ease of use.

Shear Cut Pruner 52-428 \$4.00

LOPPING SHEARS—A lighter weight but rugged lopping shear for heavy cuts and hard-to-reach branches. Handles give good leverage and are strong second growth hickory.

P12 Lopping Shear, 30" 52-306 \$4.95

P11 Lopping Shear, 25" 52-307 \$3.95

ANVIL PRUNER—A good general-use pruner for flowers, hedges, branches and tree limbs. Made of compounded alloy, blades heat-treated and sharp for clean cut without bruising the stock that remains.

Pruner—8 1/2" 52-308 \$2.95

PRUNING SAW No. 3—The finest quality, double-blade saw. One edge with lightning teeth for heavy work, fine teeth on opposite edge for fine cutting. Specially tempered to hold cutting keenness longer.

Duplex Pruning Saw 52-450 \$3.90

TAPERED PRUNER—High-grade steel frame, 1/2" blade adjusts to four angles to permit close cutting and to work in limited spaces. Kiln dried beech handle with comfortable grip.

Tapered Pruner No. 11 52-451 \$4.50

TUTTLE TOOTH PRUNER—A fast, smooth-cutting saw for handling green wood. High-grade, special steel and reinforced handle for heavy work. Non-tiring hand grip.

Tuttle Tooth Pruner, 20" 52-455 \$5.50

Tuttle Tooth Pruner, 24" 52-456 \$6.60

FOLDING PRUNER—Ideal for home grounds and orchardist. Handle covers tooth edge for easier carrying. Peg tooth 12" blade of silver steel. Curve blade permits close cut and greater working convenience from every angle.

(I) Folding Pruner 52-457 \$3.15

CALIFORNIA PRUNER—Hand pruner with exceptional mechanical design for greater strength with less effort. Strong spring. Blades keen-edged, heat-treated steel.

Pruner 52-313 \$1.35

CONTROLLING PESTS IN THE HOME ORCHARD

Period	Apples	Pears	Cherries	Peaches	Plums and Prunes
DORMANT	DN Dry Mix No. 2 1 lb. bags. 1½ tablespoonsfuls per gal. Aphid, bud moth, oyster shell scale.	DN Dry Mix No. 2 1½ tablespoonsfuls per gallon. Pear Psylla.	DN Dry Mix No. 2 Aphid. 1½ tablespoonsfuls per gallon.	DN Dry Mix No. 2 2 tablespoons per gallon of water. For peach leaf curl	DN Dry Mix No. 2 1½ tablespoons per gallon. Aphid, oyster shell scale.
GREEN TIP ($\frac{1}{8}$ " green)	Scalecide 1 qt. cans 1 cupful per gallon. Red mite, San Jose scale, Scurfy scale				
DELAYED DORMANT ($\frac{1}{4}$ " to $\frac{1}{2}$ " green)	G.L.F. Fruit Spray, ½ cup per gallon. Scab, rust, bud moth. or G.L.F. Dual Garden Spray	G.L.F. Fruit Spray, ½ cup per gallon. Scab, bud moth. Scalecide 1 cupful per gallon. Pear Psylla or G.L.F. Dual Garden Spray			
PINK (Just before blossoms open)	G.L.F. Fruit Spray, ½ cup per gallon. Scab, rust or G.L.F. Dual Garden Spray	G.L.F. Fruit Spray, ½ cup per gallon. Scab or Pear Midge or G.L.F. Dual Garden Spray	G.L.F. Fruit Spray, ½ cup per gallon. Brown rot and scab or G.L.F. Dual Garden Spray	G.L.F. Fruit Spray, ½ cup per gallon. Brown rot and scab or G.L.F. Dual Garden Spray	G.L.F. Fruit Spray ½ cup per gallon, Brown rot.
PETAL FALL (When last of the petals are falling)	Same as for PINK stage and repeat at 7-day intervals, until 30 days before harvest. For scab, rust, curculio, codling moth, apple maggot, etc.	Same as for PINK stage and repeat at 7-day intervals, until three days before harvest. For scab, rust, curculio, codling moth, etc.	Same as for PINK stage. Also for curculio.		
SHUCK FALL (When 50-75% of shucks are off the fruit that is going to set.)			Same as for PETAL FALL stage. Repeat 10 days later and then make two more applications at 10-day to two-week intervals. For maggot control make one more application immediately after Harvest.	Same as for PINK stage. For curculio, Oriental fruit moth and borer control, also. Repeat one week later, apply two additional sprays at two-week intervals. Two weeks before harvest make an application of G.L.F. Dry Wettable Sulphur at 4 tablespoons- fuls per gallon to prevent brown rot of fruit.	Same as for PINK stage and for cur- culio. Repeat one week later. Apply two additional- sprays at two-week intervals. Two weeks before harvest, make an application of G.L.F. Dry Wettable Sulphur at four tablespoonfuls per gallon to prevent brown rot of fruit.

Chemicals for the Home Orchard

DN Dry Mix No. 2	1 lb. bag.
G.L.F. Fruit Spray	5 lb. bag 1 lb. canister
Lead Arsenate	1 lb. canister
G.L.F. Lime Sulphur Solution	.1 gal. can
Scalecide	1 qt. can
G.L.F. Dry Wettable Sulphur	.5 lb. can 2 lb. canister
25% Malathion Wettable Powder	1 lb. canister

A detailed listing of additional lawn and garden chemicals are on pages 14, 35 and 36.





**THERE IS MORE
THAN GOOD EATING FROM**

a Garden

Folks garden for many reasons, some to supply plenty of low-cost garden-fresh produce for the family table with extra for canning and freezing. It is a chance, too, for catering to some particular family tastes. Still others enjoy working with the soil. And then some folks just plain want to grow the biggest, finest tomatoes, the sweetest sweet corn or the juiciest melons in the neighborhood—or to have the first peas or beans.

Whatever your interests may be, here are some basic things to take into account for a fine, high-yielding garden. These tips may help you plan and enjoy the best garden ever this year.

LOCATION

The ideal spot is one near the house where the family can take part in the garden chores in odd moments and where harvesting for meals is easier. But there are other considerations to be met. Avoid tree-shaded areas. Vegetables should have at least five to six hours of full sunlight for good growth. Remember, too, that tree roots offer strong competition for moisture against garden seedlings and growing plants.

While there is little you can do about selecting soil types, there are several ways to improve what you have to work with to improve results.

ORGANIC AND INORGANIC FERTILIZERS

One way to better returns from the garden is to make the most of both organic and inorganic fertilizers. Organic materials worked into the soil make heavy soils easier to work, better able to absorb water and hold moisture. In sandy soils it increases the water-holding capacity. Manure, compost, peat and a green manure crop will provide the organic matter wanted.

Commercial or mixed fertilizers supply the plant foods required for good growth and better production. G.L.F. Gro-LeaF (14-28-14) and Gro-LeaF 5-10-5 are both balanced plant foods that supply the nutrients needed to give seedlings an early start and to develop thrifty growth and good production.

Liming the garden about every three years will keep acidity about right for the home garden. An 80-pound bag of ground limestone or a 50-pound bag of hydrated lime per 1,000 square feet is generally sufficient. Be careful not to use too much lime. A simple test for lime can be made with the G.L.F. Soil Testing kit to check the pH level and determine the need for lime. A pH level of 6.0 to 6.8 is best suited to most vegetables, but potatoes should be grown on a considerably more acid soil to reduce scab.

(Con't on page 28)



"Super Tuffy" Power Unit

The whole family will enjoy using

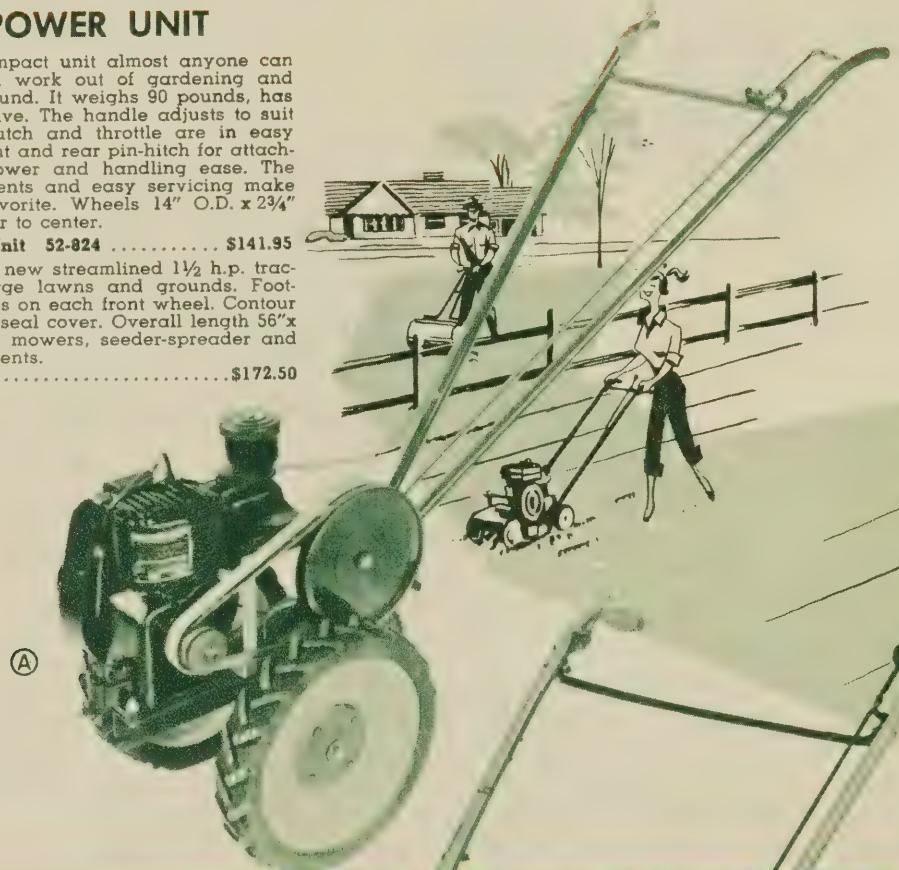
SUPER TUFFY POWER UNIT

A 2-wheeled, 1½ h.p., compact unit almost anyone can operate; to take the hard work out of gardening and outdoor chores the year round. It weighs 90 pounds, has positive belt and chain drive. The handle adjusts to suit the operator and both clutch and throttle are in easy reach. This has instant front and rear pin-hitch for attachments. Geared low for power and handling ease. The wide selection of attachments and easy servicing make this the home owner's favorite. Wheels 14" O.D. x 2¾" tire with 13" spacing center to center.

(A) "Super Tuffy" Power Unit 52-824 \$141.95

RIDING SUPER TUFFY—A new streamlined 1½ h.p. tractor for easier care of large lawns and grounds. Foot-operated clutch, foot brakes on each front wheel. Contour seat with ¾" felt and Koroseal cover. Overall length 56" x 25" wide. Reel and rotary mowers, seeder-spreader and cart available as attachments.

Riding Super 52-827 \$172.50



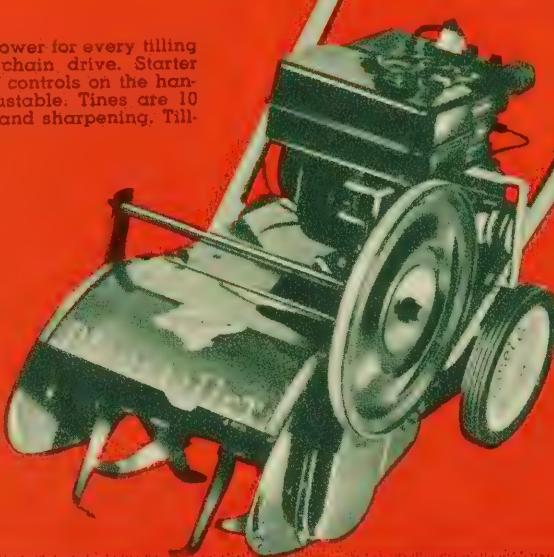
PLANETILLER

PLANETILLER—Plenty of power for every tilling job. 2½ h.p. motor and chain drive. Starter pulley on front, with other controls on the handle bars. Wheels are adjustable. Tines are 10 inches long, self-cleaning and sharpening. Tilling cut, 10 inches wide.

Planetiller is 15 inches wide, 61 inches long, 34 inches high. Wheel, 8 inch with semi-pneumatic rubber tires.

Planetiller
52-828

\$131.95





this versatile unit and its handy attachments

TUFFY AND SUPER TUFFY ATTACHMENTS

SEEDER—A-4D—A gardener's time, work and seed saver. Plants vegetable seed in hills or rows. Opens narrow furrow to right depth, drops and covers seed—rolls earth for good contact and marks the next row.

(A) Seeder—A-4D 52-831 \$31.00
Smaller Seeder—A-22 52-833 \$21.50

CULTIVATOR—A-1—A light cultivator using five No. 1395 Cultivator teeth for between-the-rows work. Center tooth removed for straddling rows. Teeth have the narrow throat and wide tooth to cultivate below the surface without throwing dirt.

Cultivator A-1 52-830 \$9.25

GRADER—A-40—Blade is 24" wide, 12" high and can be angled right or left in seven-position range. Used for light earth moving, small scale landscaping, and in winter as snow plow.

Grader A-40 52-834 \$11.75

ROTARY MOWER A-52—A rugged 16-inch rotary mower for heavy mowing in high grass and weeds and large lawns. Large side opening prevents cuttings accumulating. Adjusts for cutting height. Quickly attached and stores easily.

Rotary Mower A-52 52-835 \$33.50

TILLER A-60—An excellent tool for fitting flower beds and garden. Chain-driven steel tines with cut width of 10". Depth controlled by rubber tired gauge wheel. Separate clutch for attachment. Ruggedly built.

(B) Tiller A-60 52-836 \$56.25

SPREADER A-211—Saves materials and assures even application of lime, fertilizer, broadcast lawn or cover crop seed. Application rate easily adjusted, and accurate. Agitator assures even flow.

Spreader A-211 52-837 \$21.00

MOWER HITCH—Converts any hand lawn mower to power unit. Attached to front bar of mower and hitches to tractor frame. Swivel takes care of cutting around flower beds and shrubbery.

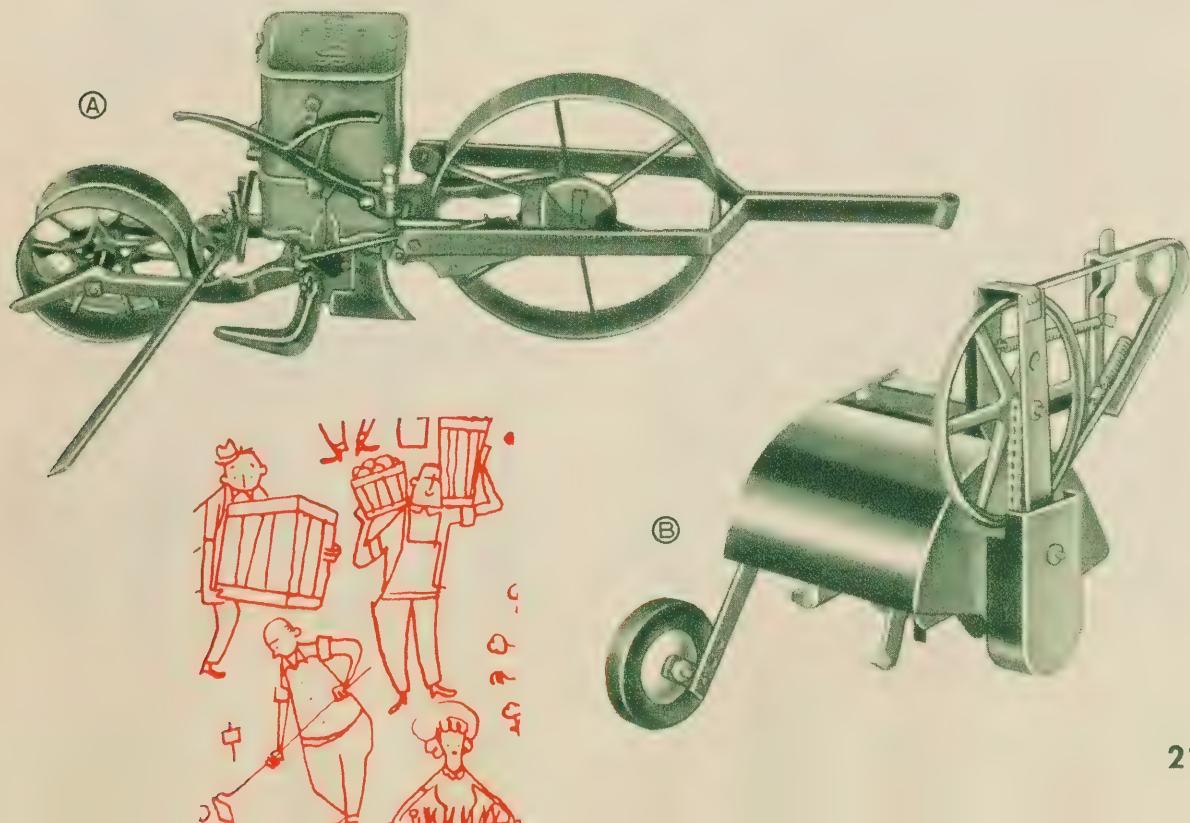
Lawn Mower Hitch 52-839 \$7.75

CHAINS—Top-quality, snug-fitting chain with forged brass cross links for extra traction when plowing snow and heavy pulling.

Chains, pair 52-840 \$5.75

WHEEL WEIGHTS—For Tuffy tractor, weigh 30 lbs. Easily attached with two bolts on each for added traction.

Wheel Weights 52-841 \$9.75



Model B-8 TRACTOR for HEAVIER GARDEN WORK

B-8 MODEL—2½ H.P. UNIT—A rugged, 2½ h.p. gas-powered tractor with reverse. A well-balanced, easy-to-operate unit with power and weight for traction and heavy work. Controls are in easy reach. The complete line of attachments and the many adaptations of cultivating equipment meet the needs of the larger garden and estate.

Ⓐ B-8 Model 52-820 \$246.50



B-8 TRACTOR IMPLEMENTS AND ATTACHMENTS

CULTIVATOR B-12—A practical cultivator that adjusts readily for any crop, either straddle or between rows. Gauge wheels adjust for depth and easy transporting.

Ⓑ Cultivator 52-860 \$39.95

PLOW B-21—An efficient, top-quality plow with instant furrow depth regulation by screw crank. Set for correct width of cut. Coulter swivel disc adjusts two ways. Quick king-pin hitch.

Plow B-21 52-862 \$41.75

MOWER B-58—Cuts a 34" swath with heights adjusting from 1" to 3". Offset to work readily under fences, into corners and hard-to-reach areas.

Ⓒ Mower B-58 52-865 \$91.50

WHEEL WEIGHTS—Adds 80 pounds at the right spot for better traction, more effective operation. **Per Pair**
Wheel Weights 52-863 \$22.95

CULTIVATING EQUIPMENT—These tools are all made of hardened tempered steel and finished for efficient, long service.

Standard	52-875	\$1.65
Clamp	52-876	1.15
Cultivator Teeth	52-878	.75
Spring Tooth	52-879	1.50

A-FRAME ATTACHMENTS

PLOWS—Moldboard designed for proper soil turning. Excellent for plowing small gardens, opening and closing furrows and hillling plants.

Plow R6 52-848 \$2.25

HOES—For shallow cultivation, weeding and mulching.

Hoes, pair 52-850 \$2.50

CULTIVATOR TEETH—Designed for thorough cultivation without throwing dirt.

52-854 \$.65

DISC HOE—Angle adjusts, reversible to throw to or from the row. Better in light and sandy soils.

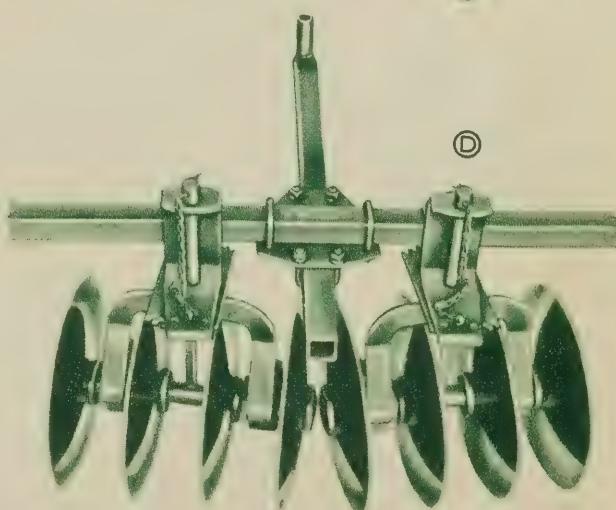
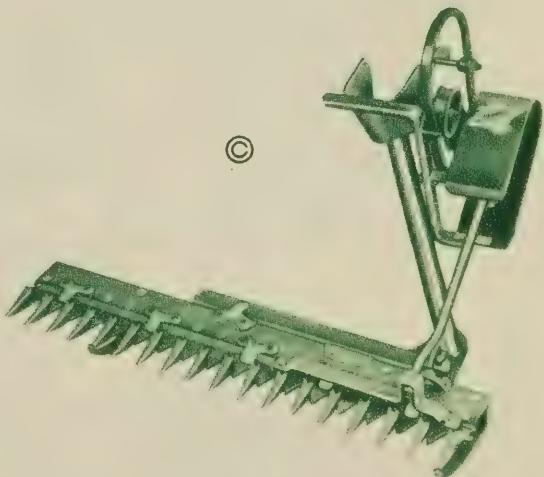
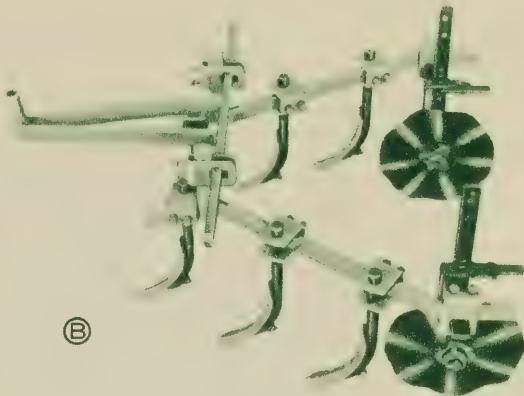
Pair 52-855 \$6.75

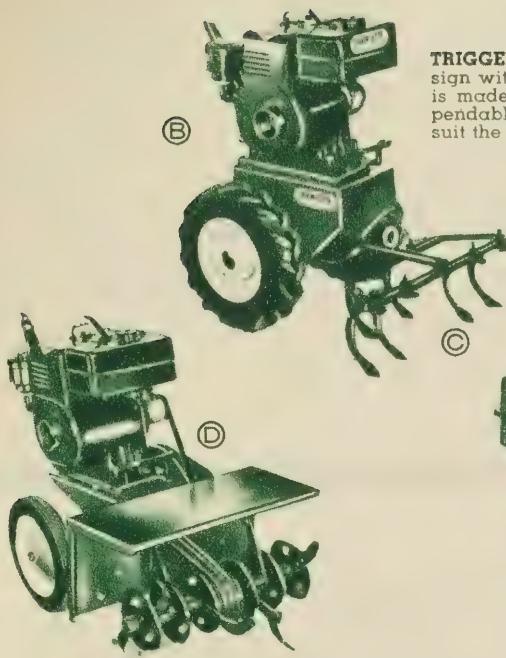
DOUBLE MOLDBOARD PLOW—Carefully designed, rugged plow that adjusts for wide or narrow furrows.

Double Plow 52-856 \$2.95

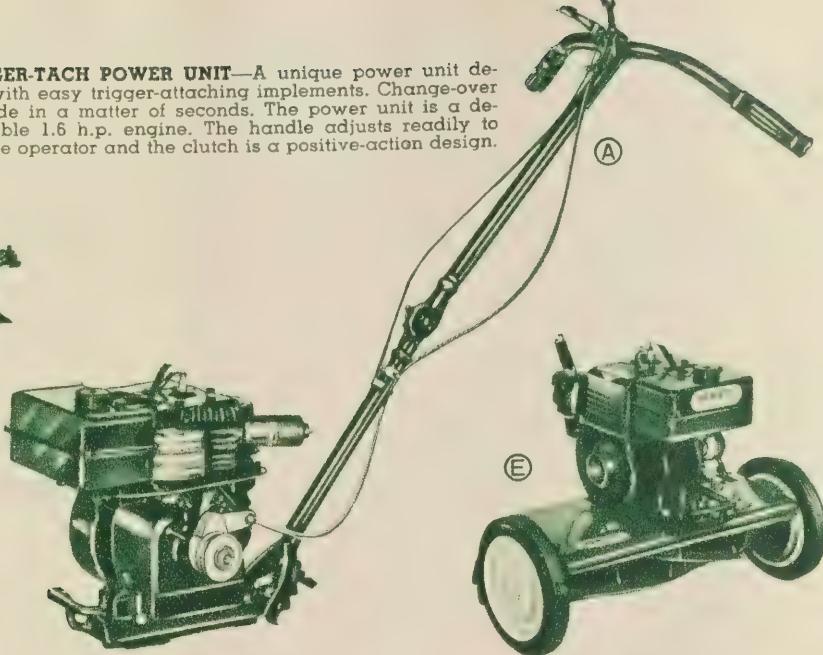
DISC B-62—Effective disc harrow with eight 12" hardened and tempered steel discs. Adjustable for width of cut, angle and pitch, and forward or backward on draw bar.

Ⓓ Disc B-62 52-864 \$54.75





TRIGGER-TACH POWER UNIT—A unique power unit design with easy trigger-attaching implements. Change-over is made in a matter of seconds. The power unit is a dependable 1.6 h.p. engine. The handle adjusts readily to suit the operator and the clutch is a positive-action design.



POPULAR WORK SAVERS

GARDEN TROWELS—Wider 6" blade riveted securely to shank.

No. 212 Trowel	52-234	\$.45
No. 215 Trowel	52-235	\$.42

ASPARAGUS KNIFE AND WEEDE—Hammer forged, hardened and tempered for rough service. Notched blade sharpened for clean cut below ground surface.

Asparagus Knife	52-237	\$.59
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DIJBLES—Polished, non-point, wood handle. Excellent for faster bulb setting and plantings.

Regular size	52-238	\$1.49
Small size	52-239	\$1.25

WEEDERS—Spring-tooth weeders that effectively grub out weeds and loosen soil handily in thick plantings. Top-quality, finished handles.

Weeder BB with 33" handle	52-280	\$.41
Weeder D—4-tine with square blade	52-281	\$.41
5½" handle	52-281	\$.41
Weeder F—4-tine 42" handle	52-282	\$1.05

CULTIVATOR—Rigid tool for rough wear with firmly anchored Bluff Ash handle 9½" long.

52-316	\$.69
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HAND FORK—Rigid 11½" tool with 6" blades to loosen hard ground.

52-317	\$.69
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V-BLADE DIGGER—A 15-inch digger with 9½" blade with V-notch sharpened for clean cutting.

52-318	\$.69
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TRANSPLANTER—A heavy, quality transplanting trowel with 6" blade, 11½" overall length.

52-319	\$.69
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GARDEN GLOVES—Kleenettes—An excellent sanforized cotton ladies' glove for gardening and general house work. Comfortable glove with elastic band across the back.

(F) Kleenettes, pair	46-012	\$.39
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Plastic Coated—A hard-wearing glove with amber colored plastic covering that resists abrasion and water. Has snug-fitting knit wrist.

(G) Plastic Coated, per pair	46-044	\$.75
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Goatskin Gloves—The most comfortable protective glove available. Soft and tough napa-type goatskin that is pliable and washable. Soap and water will not harm it.

Men's sizes, per pair	46-098	\$1.20
Ladies' sizes, per pair	46-099	\$1.15

TRANSPLANTING TROWEL—Excellent narrow and deep blade for transplanting work.

(H) 52-231	\$.35
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HIGH WHEEL CULTIVATOR—The popular pulling-action cultivator with basic attachments for home garden service.

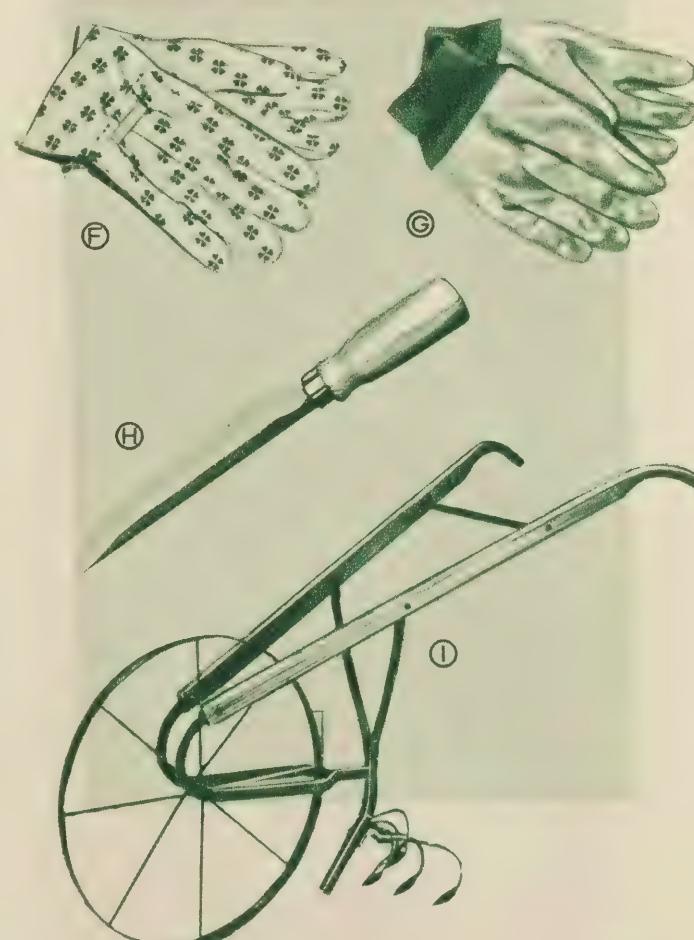
(I) 52-225	\$8.40
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LOW WHEEL—A sturdy, small cultivator with duck feet, weeder blades and plow.

52-226	\$10.75
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TRIGGER-TACH POWER UNIT—
and easy trigger-attaching implements.

(A) Power unit	52-800	\$74.50
(B) 55T Traction Unit	52-803	\$54.50
(C) 55T-1 Cultivator shown with Traction unit	52-804	\$ 9.50
(D) 55C Rotary Cultivator	52-805	\$57.50
(E) 55P Reel Mower	52-816	\$69.50





GARDEN HOE

An excellent lightweight hoe with taper-rolled 6½" blade. Durable hardwood smooth handle.

(A) Garden Hoe 52-210.....\$2.25

FLORAL HOE—A smaller 5" blade for work in close plantings. 4-foot hardwood handle.

(B) 52-212.....\$2.20

WARREN HOE—An excellent pointed hoe with sharp ears, sides and point. One piece 6½" x 4¾" forged steel blade and shank, sturdy hardwood handle.

52-209.....\$2.49

SOCKET TYPE HOE—A 6½" polished steel blade with good weight for general field and garden work.

Hoe DGS 52-211.....\$2.55

SHOVELS—Round-Point Shovels—Finest quality high-carbon shovels, heat-treated and with rolled shoulders.

(C) Long handle, 8½" x 11¾" blade.....\$3.80

**Long handle, 9" x 12½" blade
open back 50-012.....\$2.95**

**"D" handle, 9" x 12¼" blade
open back 50-015.....\$3.10**

**"D" handle, 9" x 12" blade
closed back 50-017.....\$3.90**

CORN HOE—A shallow 8 x 2½" blade and the right weight for fast field work in corn and similar plantings.

Corn Hoe 52-213.....\$2.77

2-PRONG WEEDE—A tempered blade with two prongs, for working close to plants and in thick stands.

(D) 2-Prong Hoe 52-214.....\$1.33

ONION HOE—With 7 x 1¾" blade for cultivation of onions and similar crops.

52-215.....\$2.50

SPADING FORK—A 4-tine 11" fork of top grade, properly tempered steel. "D" grip and bent ash handle.

(E) 52-203.....\$3.69

FLORAL SPADING FORK—Light weight and easier to handle, in flower gardens, beds and small gardens.

Fork 52-206.....\$2.89

FLORAL SHOVEL—A smaller blade and light weight that is ideal for transplanting and light work.

Round-point "D" handle 52-207.....\$2.65

Round-point long handle 52-208.....\$2.65

DITCH SPADE—An excellent ditch and drain spade with 16" high-carbon steel blade, riveted steps and ash handle.

(F) Ditch Spade 50-011.....\$4.60

SQUARE-POINT SHOVEL—A rugged shovel with rolled shoulders and steel I-beam reinforcing. Top-quality ash handle.

**(G) Long handle 50-014.....\$3.80
"D" handle 50-013.....\$3.90**

MATTOCK HOE—A 14" head with 1¾" and 3" blade for grubbing out tough sod or weeds. Has 4½-foot handle.

52-217.....\$2.89

FLORAL CULTIVATOR—A forged 3-tine cultivator for working in flower beds and close plantings.

Cultivator 52-222.....\$2.42

CULTIVATOR WEEDE—A rugged, forged steel, 4-tine cultivator with 4" working depth.

(H) 52-223.....\$2.69

STEEL GARDEN RAKE

A light weight, 14-tooth, good quality rake for garden and flower bed work.

(A) Steel Garden Rake 52-240.....\$1.98



GARDEN SPADE—A popular, top-quality spade with the comfortable 'D' grip. Rugged 14-gauge, heat-treated steel blade. Handle of sturdy white ash.

(B) Garden Spade 52-200.....\$3.29
 Garden Spade, long handle 52-201.....\$3.29

BOW RAKE—A popular, rugged rake with 15 curved teeth. Has 5-foot handle.

(C) 52-242.....\$2.62

LEVEL HEAD RAKE—Premium-quality, 14-tooth steel rake popular with most gardeners.

52-241.....\$2.59

FLORAL RAKE—A good quality but lighter weight rake with shorter head for close-quarter work.

52-251.....\$1.75

SWAN NECK HOOK—A forged steel hook for digging potatoes and other crops. 4 tines with long, smooth handle.

(D) Hook 50-480.....\$3.55

FLAT SHOVEL—A good general-purpose flat shovel with rolled shoulders. Long-wearing, high-carbon steel blade.

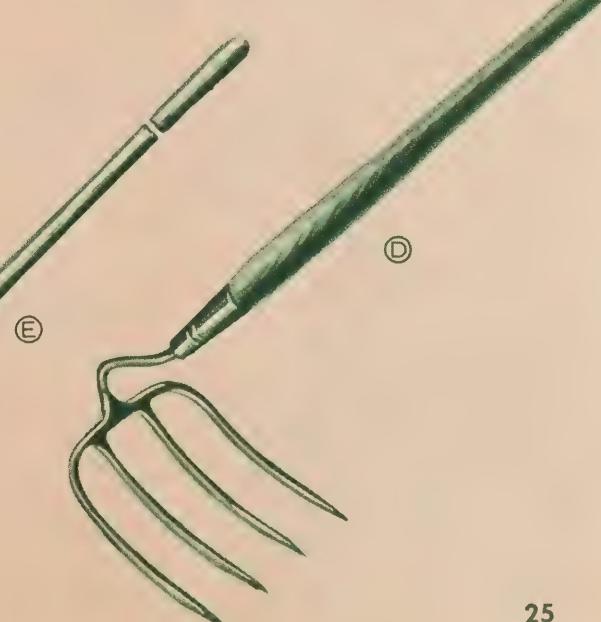
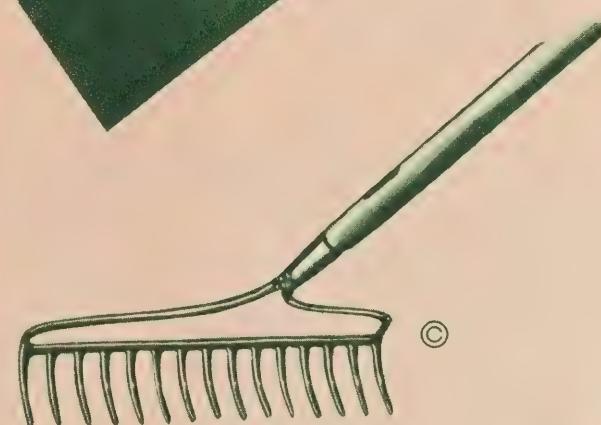
(E) Long handle 50-004.....\$1.73
 "D" handle 50-005.....\$1.73

MANURE FORK—A heavy-duty 6-tine fork tempered for hard service. Top grade hardwood handle.

(F) Long-handle fork 50-408.....\$3.55
 32" "D" handle fork 50-410.....\$3.70

FLORAL SET—A handy home gardener's set of essential hand tools includes a rake, hoe, shovel and fork.

Floral Set 52-199.....\$8.96



GARDEN TOOLS

that mean more done with less work

*Implements to take the back break out of
gardening and make a bigger garden
easier to work*



PLANET JR. SEEDER—With the seeder plates to handle all size seeds for accurate planting, there is no waste and long rows are planted quickly. Seeder opens furrow to proper depth, drops seed, covers and firms the soil. It marks the next row, too. A smooth-operating, accurate seeder that is fun to work with.

(A) 4D Seeder	52-885	\$29.95
22 Seeder	52-886	\$19.95
Drill Seeder	300A	\$39.95
Corn Planter	330	\$11.95

SPREADER—A more convenient, accurate and pleasant way to spread fertilizers and lime. Accurately controlled flow for proper, even distribution at the rate you want. Agitator maintains an even flow.

(B) Spreader	211	52-890	\$19.95
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WHEEL HOE—One of the easiest ways to properly cultivate to kill weeds, keep the garden surface in good condition without harming tender plant roots. Double wheels make this one a pleasure to use.

(C) Wheel Hoe—single wheel	52-893	\$11.75
(D) Wheel Hoe—double wheel	52-892	\$18.25

GARDEN PLOW—A rugged yet easy-operating plow for refitting the garden and opening furrows for planting.

Plow	119W	52-894	\$10.95
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SPRAYERS AND DUSTERS

SLIDE SPRAYER—Used with an ordinary pail, this trombone-action spray has a range up to 35 feet. Nozzle adjusts from fine mist to full stream. No loose parts to be mislaid.

(E) **Slide Sprayer** 47-112 \$7.45

Whether yours is a small flower bed or a big garden and orchard, you'll find the right equipment here to wage war against pests and plant disease.

SPRAYERS—The popular, easy-to-fill, easy-to-clean sprayer, with the large head opening. The four-gallon capacity gives you plenty of material to do your whole spraying job. Dependable pump, positive shutoff, adjustable nozzle and wide carrying strap.

(F) **Sprayer**—4D 47-110 \$12.85

OPEN HEAD No. 196—A top-quality 4-gallon sprayer with electro-welded tank. The nozzle is adjustable for fine mist or full spray as needed.

Sprayer No. 196 47-181 \$10.25

2½ GALLON—A smaller open-head sprayer that has all the advantages of the large tank but better suited to the smaller home grounds and garden.

Sprayer, 2½ Gallon 47-182 \$9.68

FUNNEL TOP SPRAYER—The raised funnel top makes filling easier without waste. Dependable pump, long life Neoprene hose and adjustable nozzle. 3½-gallon capacity.

(G) **Sprayer, 3½-Gallon** 47-170 \$7.40

FUNNEL TOP 1½-GALLON—A lightweight sprayer for the lady gardener and for the small garden. Top quality materials and design.

(H) **Sprayer, 1½-Gallon** 47-185 \$6.35

CHAMPION SPRAYER—A dandy 5-gallon sprayer for insecticides, fungicides, weed killer, water paints. A long life, uniform pressure sprayer that is easy to handle. Excellent for garden, shrubs, and tree spraying.

(I) **Champion Sprayer** 47-111 \$30.35

HAND SPRAYERS

TWO-QUART DUSTER—Continuous, wide blast of evenly spread material gives good coverage for effective pest control. One of the easiest hand dusters to operate and direct accurately.

(J) **Duster D2** 47-014 \$3.70

BRASS—COPPER—1-quart sprayer that will last for years. Continuous spray, adjustable nozzle.

(K) **Brass Sprayer** 47-134 \$4.35

SPRAYER No. 1010—Gasoline engine powered, 10-gallon sprayer for the suburban home and farm, or orchard. Handles all materials at continuous, high pressure. Output 1½ gallons per minute. Has 10-foot hose, 5-spray nozzle, dependable shutoff valve. Cushion tire wheels, 4 cycle 1 h.p. engine. Easy to move around the grounds or orchard.

Power Sprayer No. 1010 47-018 \$137.16

KILLER KANE—The really lazy way to deal sure death to ugly weeds. Place point of cane on the weed, press and release—a measured dose of weed killer does the rest. Plastic and brass for long life.

Killer Kane 47-120 \$1.98

FAN DUSTER—The easiest, most efficient duster for even, thorough application in the home and farm. Carried easily, adjustable application rate from one to 20 pounds per acre. Large volume, high-velocity fan with extension tube and Y connection for 2-row application. Hopper holds 10 pounds.

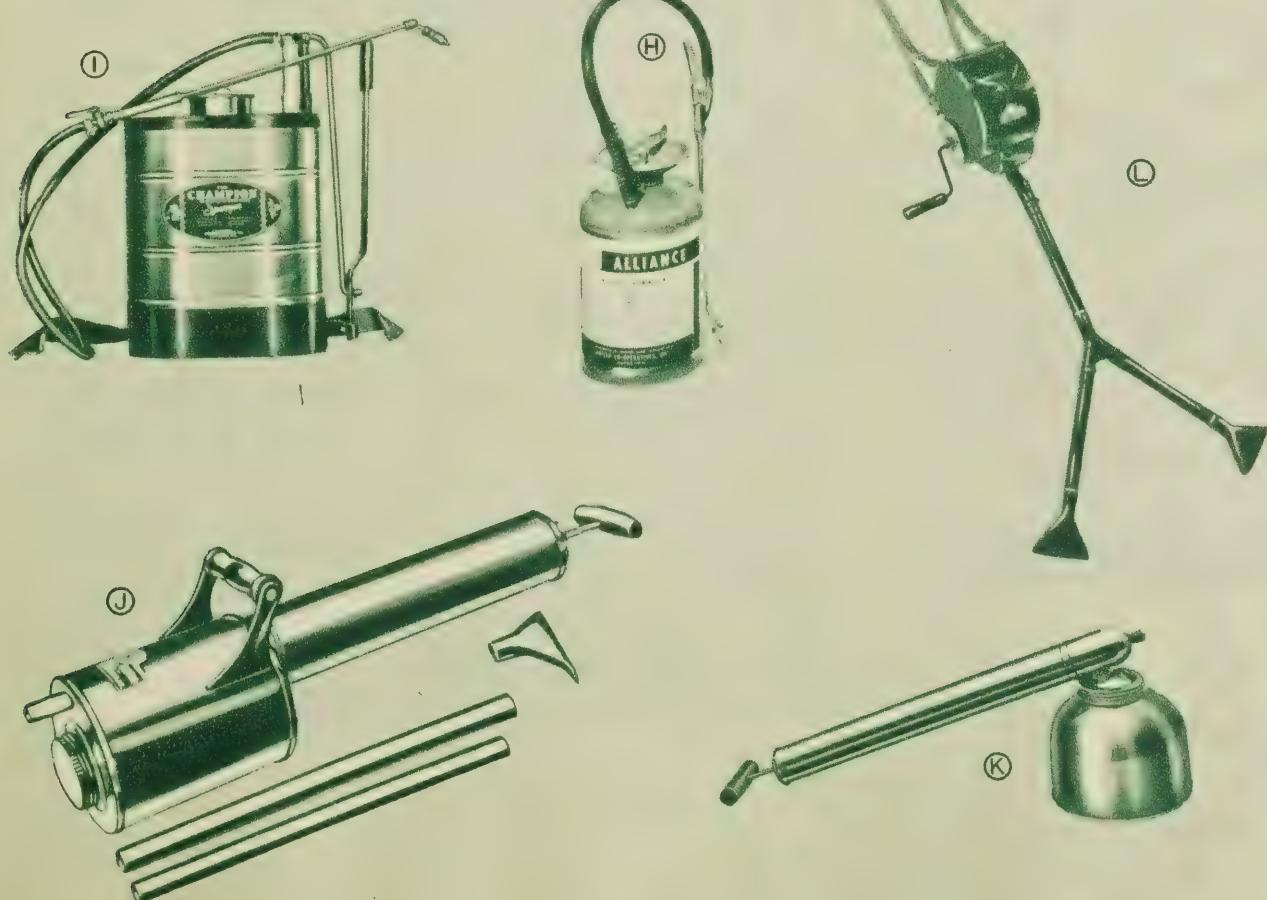
(L) **Fan Duster** 47-004 \$24.65

ONE-QUART DUSTER—A popular size, effective duster for the small home garden. Distributes material evenly over the entire plant.

Duster F-1, quart 47-011 \$2.15

SWIVEL DUSTER—A popular 1-quart duster with a swivel nozzle on a 21" tube. You can reach under plants without stooping, to get dust where it will be effective. Filler scoop permits filling without waste.

Swivel Duster 47-017 \$2.40





(Con't from page 19)

Use G.L.F. Gro-LeaF 5-15-5 at the rate of five pounds per 100 square feet or about one-third this amount of the Soluble Gro-LeaF 14-28-14. Spade in one half and apply the rest on top of the soil and rake in. After heavy rain and on sandy soils a side dressing, applied 3 to 4 inches from plants at the rate of two pounds of 5-10-5 Gro-LeaF per 100 feet of row or one pound of the Soluble Gro-LeaF 14-28-14.



Manure supplemented with 1 to 1½ pounds of superphosphate per bushel is enough for about 50 to 75 square feet of garden area. Unless this is well rotted it should be plowed or spaded under. This supplies the organic matter wanted as well as the plant food nutrients.



Compost is a valuable garden aid and should not be slighted. Leaves, straw, vegetable tops and similar materials put into the compost pile can provide a good supply of organic material. Adding a pint of 5-10-5 per bushel of compost will hasten decay and produce a more valuable material.

SELECTING CROPS



Here is where the early season pleasure comes in to the family garden. In selecting varieties, choose those with which you are familiar but be sure that you are not overlooking the newer disease-resistant varieties, becoming available each year. Quality is the important factor to consider in choosing varieties. If space permits, experimenting with some of the unusual crops may turn up some interesting surprise treats. The taste preferences of the family along with the space available will dictate much of your selection. List the varieties wanted and the quantities required and purchase all your seed from your nearest G.L.F. Service Agency. Guaranteed quality and tested G.L.F. seeds are listed beginning on page 31 of this book.

PLANNING



Your plan can be as elaborate or as simple as you wish, but it is wise to have some written plan worked out in advance. It makes it easier to determine the amount of seed required and will make garden work easier during the season. With a plan worked out in advance, you can spot opportunities for interplanting and locations where early crops will be harvested in time to permit a second crop to increase the yield from your garden and a longer season.

Group the plantings according to size for easier cultivation and to avoid unnecessary shading of some crops by tall-growing plants.

If your garden is on a slope or hillside, lay out the rows across the hill rather than up and down. Cultivation will be easier and this helps prevent erosion and holds moisture better.

Plan for increased production by noting the early crops that can be harvested soon enough to permit a second planting of some crop that will mature in the later season. Interplanting, such as pumpkin in with the corn, should also be considered to increase yield from limited garden space. With corn—plant this

in blocks of at least three rows rather than in long rows to improve yield through better pollination.

Rotate your crops from year to year to keep disease under better control. Last year's plan will help you avoid putting the same family crop in the same location.

Space rows for easy cultivation. Rows can be closer together where you are going to use a hand hoe or wheel cultivator and should be wider if a garden or farm tractor is to be used. For better weed control, spacing should also be such that most of the garden area is covered eventually by the top growth of your vegetables.

WORKING THE GARDEN

In early spring and late fall, an application of 2,4-D or other suitable weed killer will help clean out plants that may carry virus disease that can be transmitted to seedlings. After planting, a spray of ACP Garden Weeder, as directed on the bottle can be used in the seeded area. This will eliminate a lot of time-consuming work in the garden.

As soon as your soil is workable—in the crumbly ball stage, plow or spade the entire garden area. Spading should be to a depth of 7 or 8 inches. This should then be harrowed or raked to produce a good texture and to prevent excessive drying out. A fine seed bed is desirable for the small seeds to assure better contact and germination.

Planting directions for all varieties are included on each package of G.L.F. garden seed and should be followed carefully for best results. If the seed is not already treated, treat with Arasan or Captan according to directions on the packet. This offers protection against seed rot and damping-off.

Thin seedlings in the row while they are small, rather than trying to wait until plants are big enough to be usable. Early thinning encourages better growth and generally means greater total yields.

Transplanting should be done carefully to keep as big a ball of earth around tender roots as possible. Use about one cup of transplanting solution in each hole to reduce wilting of newly-set plants and to get growth started early. One-half cup of Gro-Leaf all soluble 14-28-14 or similar fertilizer in six gallons of water will make a good solution. Press the soil firmly around the plant roots and ball when setting transplants.

CULTIVATION

As soon after rains or irrigation as the soil is workable a shallow cultivation will kill small weeds and prevent crusting. To do a good job without cutting tender crop roots, use a hoe or weed knives on your wheel cultivator and cultivate close to the surface. This will cut out the small weeds that may have started without cutting down to crop root growth.

PLAN FOR PEST AND DISEASE CONTROL

A regular spray or dust program followed at the right time serves as a suitable preventive and effective control. Once plant disease has become established it cannot be cured. Purchase your spray and dust materials along with the seed and be ready to follow out a sound preventive program. A complete chart of materials to use for the various crops and the time to apply these G.L.F. Spray and Dust materials is included on page 35 of this book.

When crops begin to mature, regular, selective harvesting, day by day, will supply a steady supply of food for the table at its prime. With the advantages of freezing or canning many vegetables, it is possible to make better use of all your crops and avoid the hectic rush of taking care of a flush crop before it gets too big and tough as it passes its prime.

Many vegetable crops can now be successfully stored for winter use in the freezer and the convenience of preparation permits handling surpluses each day with ease.

GARDEN TOOLS AND EQUIPMENT

A reasonable set of good tools for the garden can be easily built up year after year. Good quality tools, given reasonable care, will serve for years and more than justify their initial cost. Along with the regular hand tools, include a good, substantial sprayer and duster of adequate size to conveniently work in the garden area. A small hand duster or sprayer that is ideal for floral borders and small beds will prove tiring and discouraging when it comes to working in the larger garden.

A complete catalog of all types of garden equipment is included here. In it you will find many work and time savers to make your gardening this year a greater pleasure and give a more bountiful harvest.

PLANTING GUIDE

VEGETABLE	Season Supply For Family of 5 or 6		One Packet Enough For	One Ounce Enough For	Inches Between Rows	Inches Between Plants or Hills
	Feet of Row	Plants Needed				
BEANS—Snap	100'-200'		(1 lb. for 160 foot row)	30-40	2-3	
Lima	100'		(1 lb. for 160 foot row)	36-40	4-6	
BEETS—Early	50'		20 feet	75 feet	12-18	2
Late	100'		20 feet	75 feet	12-18	2
BROCCOLI	45'	15	250 plants	2000 plants	36	14-18
BRUSSELS SPROUTS	45'	15	250 plants	2000 plants	36	14-18
CABBAGE—Early	50'	35	200 plants	1500 plants	30-36	14-18
Late	100'	70	200 plants	1500 plants	30-36	14-18
CARROTS—2 plantings ..	100'-150'		100 feet	400 feet	14-18	1
CAULIFLOWER	50'	35	125 plants	2000 plants	36	14-18
CELERY	75'	150	1000 plants		24-48	6
CHARD	35'-50'		20 feet	75 feet	18-24	3-6
CHINESE CABBAGE	25'		100 feet		18-24	4-6
CUCUMBER	75'		20 hills	75 hills	60-72	24-48
EGG PLANT	50'	25	250 plants	2000 plants	36	18-24
ENDIVE	25'		40 feet	300 feet	18	8-12
KALE	50'	35	50 feet		18-24	14-18
KOHLRABI	25'		20 feet	200 feet	18	3-4
LETTUCE—Leaf	25'		100 feet	400 feet	12-18	2-10
Head	25'-50'		50 feet	400 feet	12-18	10-14
MUSKMELON	75'-100'		25 hills	100 hills	48-72	36-48
ONION for bulbs	100'		25 feet	250 feet	14-18	2
PARSLEY	15'-25'		50 feet	400 feet	14-18	1-8
PARSNIP	50'		25 feet	200 feet	14-18	1
PEAS	150'-300'		(1 lb. for 100 foot row)		24-36	1-3
PEPPERS	25'-50'					
PUMPKIN	50'-75'	18-36	100 plants	1000 plants	36	14-18
RADISHES	25'-75'		6 hills	25 hills	72-96	72
RUTABAGA	50'		25 feet	100 feet	12-14	1
SALSIFY	50'		75 feet	200 feet	18-30	3-6
SQUASH—Summer	50'		25 feet	100 feet	14-18	1-2
Fall	75'		6 hills	25 hills	72	36
Winter	125'-150'		6 hills	25 hills	72-96	72
SWEET CORN	150'-300'		(1 lb. 300-400 hills or 600' row)		30-36	72-96
SPINACH	50'-100'		25 feet	100 feet	12-18	2-4
New Zealand	35'-50'		25 feet	100 feet	18-24	10-20
TOMATOES	150'-225'	50-75	100 plants	2000 plants	48-72	36
TURNIPS	100'		50 feet	100 feet	14-18	3-6
WATERMELON	50'		3 hills	25 hills	72-96	72-96



PAINT UP
THIS SPRING
G.L.F. Unico Paints
are Ideal!



G.L.F. GARDEN SEED

KNOWN ORIGIN SEED ESPECIALLY ADAPTED TO THE NORTHEAST

Symbols mean recommended for:
f-freezing c-canning s-storage

BEANS GREEN PODDED BUSH

	1/4 lb.	1/2 lb.	1 lb.
BOUNTIFUL	\$2.00	\$3.00	\$5.00

Pods 6 1/2 inches long, flat, slightly curved, light green in color. Fair quality when picked in young, tender stage.

TOPCROP

51 days (c. f.)	.20	.30	.50
Pods 5 1/2 to 6 inches long, round medium dark green—excellent quality. Resistant to common bean blight and New York 15 Mosaic.			

CONTENDER

52 days	.20	.30	.50
A new, heavy-yielding variety with 6-6 1/2 inch, plump oval pods. Resistant to common bean Mosaic.			

Stringless GREEN POD

52 days	.20	.30	.50
Pods 5-6 inches long, round, medium green, free from strings and fiber—thus, good quality.			

LONG TENDERGREEN (New)

53 days (c. f.)	.20	.30	.50
A new improved selection of Tendergreen possessing high resistance to mosaic disease. Pods 6 1/2 to 7 inches long; round, smooth and straight. Excellent quality.			

WADE BUSH

54 days (c. f.)	.20	.30	.50
This new variety is resistant to common bean Mosaic and Powdery Mildew. Pods deep green color; 5 1/2 to 6 inches long; round, slender and of excellent quality.			

FRENCH HORTICULTURAL

68 days	.20	.30	.50
Commonly used as Shell beans. Pods 7 inches long, light colored, overlaid with deep red splotches. Plants are large and tend toward runner type.			

WAX PODDED BUSH

CHEROKEE

52 days (c. f.)	.20	.30	.50
Stringless, tender, oval pods of good quality. Heavy yields over a long period.			

SURE CROP

53 days	.20	.30	.50
Pods 6-6 1/2 inches long, flat, attractive light yellow. Cherokee recommended for better quality.			

PENCIL POD

55 days (c. f.)	.20	.30	.50
Round pods, 5 1/2-6 inches long, medium yellow in color.			

POLE BEANS

KENTUCKY WONDER

68 days (f.)	.20	.30	.50
Green podded. An old favorite pole bean. Pods 7-8 inches long, thick, oval, curved and somewhat constricted between seeds.			

BUSH LIMAS (TREATED)

HENDERSON

65 days	.20	.30	.50
Small seeded baby lima type with flat, medium green 3-inch pods.			

FORDHOOK 242

75 days (c. f.)	.20	.30	.50
Similar to regular Fordhook but puts on heavier set of early pods and is better able to withstand adverse conditions.			

BURPEE IMPROVED

75 days	.20	.30	.50
Pods 5 inches long with very large, flat beans.			

POLE LIMAS (TREATED)

KING OF THE GARDEN

88 days	.20	.30	.50
Tall vines. Pods 5-6 inches long, flat, straight. Seed large, flat.			

BEETS

EARLY WONDER

52 days	\$1.00	\$2.00	\$4.50
First early garden beet. Similar to Crosby.			

CROSBY EGYPTIAN

55 days	.10	.20	.45
Large (tops, roots dark red) flattened globe shape with purplish-red flesh.			

PERFECTED

DETROIT

60 days (c. s.)	.10	.20	.50
Medium to large tops. Globe shaped roots with solid red interior and exterior color.			

BROCCOLI

ITALIAN GREEN SPROUTING

70 days (f.)	\$1.00	\$5.00
Produces large central heads followed by smaller side branches. Usually planted for Fall crop.		

BRUSSELS SPROUTS

CATSKILL

90 days (f.)	.10	1.00
Small compact plants, stems well covered with firm, round sprouts which mature in succession.		

CABBAGE (TREATED)

EARLY COPENHAGEN MARKET

75 days	\$1.10	\$5.55
Round, solid heads averaging 3-4 pounds.		

GLORY OF ENKHUIZEN

85 days	.10	.50
Solid heads weighing 5-6 pounds. Used widely for sauerkraut.		

CHIEFTAIN SAVOY

90 days	.10	.55
Loose, flat heads with heavily savoyed or crinkled leaves.		

DANISH BALLHEAD

110 days (s.)	.10	.55
Heads slightly flattened, almost round, solid, high yielding.		

MAMMOTH RED ROCK

120 days (s.)	.10	.50
Most popular late red cabbage. Solid heads, flattened globe in shape.		

CHINESE CABBAGE

CHIHLI

70 days	.10	.35
Heads 3-4 inches thick and 18 inches tall, tapered at tip. Firm, crisp, tender and sweet.		

CARROTS

CHANTENAY RED CORED

70 days (s.)	.10	.20
Roots deep orange with inconspicuous core, 5 1/2 inches long, blocky. Keeps well in storage.		

CHANTENAY LONG TYPE

70 days (s.)	.10	.25
Similar to Red Cored but with long, less blocky roots.		

NANTES

70 days (s.)	.10	.25
Deep orange cylindrical roots, 6-7 inches long. Best quality for table use.		

DANVERS HALF LONG

75 days	.10	.20
Tapered roots 6-7 inches long. High quality.		

CAULIFLOWER

Improved HOLLAND ERFURT

75 days (f.)	.10	3.00
Large, deep heads with pure white curds, maturing gradually through long periods.		

PURPLE HEAD

80 days (f.)	.10
Produces large, loose green heads which are purple on top. Purple color bleaches out when cooked. It is not necessary to cover heads with leaves during growth. Excellent flavor.	

CELERY

GOLDEN SELF-BRANCHING

85 days	.10	1.00
Compact, full hearted stalk, easily blanched.		

GREEN

SUMMER PASCAL

115 days	.10	1.40
Stalks nearly round. Smooth and very tender.		

SALT LAKE OR UTAH

125 days	.10	1.00
Stocky plants with thick, solid, broad stems of high quality.		



CELERIAC

LARGE SMOOTH PRAGUE—110 days **Pkt. \$10 Oz. \$60**
Turnip-rooted celery for flavoring soups, stews, and salads.

CHARD

FORDHOOK GIANT—55 days **Pkt. \$10 Oz. \$20 1/4 lb. \$50**
(Swiss Chard) Tall, vigorous plants producing high quality green leaves for summer use. As leaves are picked off, new ones develop.

SWEET CORN

OPEN POLLINATED (TREATED)
LUTHER HILL—70 days **Pkt. 1/4 lb. \$10 \$20 1/2 lb. \$30 1 lb. \$50**
Small 5-inch ears with tender white kernels of excellent quality.

GOLDEN BANTAM—78 days **.15 .25 .45**
Ears 7 inches long with 8 rows of yellow kernels. Quality good.

SPANCROSS—65 days **1/4 lb. \$25 1/2 lb. \$35 1 lb. \$60**
First early hybrid. Ears are 6-7 inches long with fair quality.

GOLDEN BEAUTY—70 days **.25 .35 .60**
A new high quality, attractive early variety. Awarded the All America Trial Silver Medal for 1955.

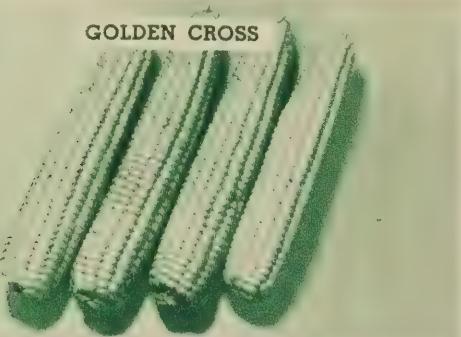


MARCROSS—72 days **.25 .35 .60**
Good quality early hybrid. Ears 7 1/2 inches long with 12 kernel rows.

CARMELCROSS—80 days (c. f.) **.25 .35 .60**
High-quality mid-season variety. Attractive, well-filled 8-inch ears with 12-14 rows.

HOOSIER GOLD—84 days (c. f.) **.25 .35 .60**
A new mid-season hybrid with 9-inch ears of excellent quality. Ears have 12-14 rows of light colored kernels.

GOLDEN CROSS—88 days (c. f.) **.25 .35 .60**
(Golden Cross Bantam) Leading variety for home use. Our strain unsurpassed for vigor, yield, and quality. Ears well filled 8 1/2 inches long, 12-14 kernel rows and very attractive.



IOCHIEF—90 days **.25 .35 .60**
Ears 9 inches long with 14 to 18 rows of small, deep kernels. High quality.

HYBRID BLEND—72-88 days **.25 .35 .60**
A mixture of the popular hybrids Marcross, Carmelcross, Golden Cross and Ioana made to spread maturity of the crop when only one or two plantings are made in the garden.

HYBRID WHITE (TREATED)

STOWELL'S **Pkt. 1/4 lb. \$10 1/2 lb. \$25 1 lb. \$60**
EVERGREEN HYBRID—95 days **\$25 \$35 \$60**
Ears 8 1/2 inches long with 14-18 rows of medium sized, deep white kernels.

POPCORN

WHITE HULLESS **Pkt. 1/4 lb. \$10 1/2 lb. \$25 1 lb. \$75**
HYBRID—80 days **\$10 \$25 \$40 \$75**
A new white hybrid which produces 5-inch ears with medium sized rice type kernels. Popped kernels are medium sized, attractive, and of very high quality.

CUCUMBERS

(TREATED) PICKLING
YORKSTATE PICKLING—52 days **Pkt. \$10 Oz. \$25 1/4 lb. \$75**
Mosaic-resistant pickling variety. Used for all types of small pickles.

SLICING

MARKETER—62 days **.10 .30 .85**
Long, straight, dark green fruit. Plants very prolific and set fruits over a long period.

NIAGARA—63 days **.10 .30 1.10**
A mosaic-resistant slicer with dark green color and cylindrical shape. Highly recommended for gardeners whose cucumber production has been cut short by Mosaic disease.



EARLY FORTUNE—65 days **.10 .20 .65**
An old favorite white spined variety. Used for both pickles and slicing.

STRAIGHT EIGHT—66 days **.10 .30 .85**
Fruits long, thick, smooth and straight. Heavy yielder of attractive slicers.

Improved LONG GREEN—67 days **.10 .30 .85**
Used for both pickling and slicing. Fruit slightly tapered.

A & C—68 days **.10 .30 .85**
Dark green, medium thick, 8-9 inches long when mature.

DILL MAMMOTH—70 days **.10 .20**

EGGPLANT

BLACK BEAUTY—80 days **Pkt. \$10 Oz. \$85**
Fruits large, blocky, pear-shaped, deep glossy purple.

ENDIVE

BROADLEAF BATAVIAN **Pkt. \$10 Oz. \$25**
OR ESCAROLLE—90 days **.10 .25**
Large plants with compact, well-blanced hearts and full, broad leaves.

GREEN CURLED—95 days **.10 .25**
Leaves curly, deeply cut with green ribs. Hearts blanch to creamy yellow.

KALE

DWARF BLUE CURLED—85 days **.10 .30**
Improved strain. Used for high quality greens, late fall.

KOHLRABI

WHITE VIENNA—55 days **.10 .40**
Kohlrabi forms an above-ground enlarged stem, used similar to a turnip but milder when cooked.

PURPLE VIENNA—60 days **.10 .40**
Similar to White Vienna except that leaves and exterior of bulb have purple color.

LEEK

AMERICAN FLAG—150 days Pkt. \$10 Oz. \$50
Resembles a large green onion but with larger and straighter bulb and flat leaves. Mild flavor.

LETTUCE**LOOSE LEAF**

SALAD BOWL—42 days .10 .50
A new loose leaf type released by the U.S. Dept. of Agriculture. Large plants formed by many short, closely set, curly, deeply cut, rich green leaves. Leaves are tender and of high quality. Plants are slow to bolt.

**SALAD BOWL**

GRAND RAPIDS—42 days .10 .20
Large, light green, curly leaves.
BLACK SEEDED SIMPSON—45 days .10 .20
Large attractive plants with broad, frilled light green leaves.
PRIZEHEAD—45 days .10 .20
Curly leaves, tinged edges with reddish-brown color.

HEADING VARIETIES

BIG BOSTON—75 days .10 .25
Butterhead type, with light green leaves fringed with brown, and creamy-white heart.
CORNELL 456—85 days .10 .65
Best of the Iceberg types. Medium-sized heads are very solid and resistant to tip burn.

COS OR ROMAINE

TRIANON COS—70 days .10 .20
(White Paris) Narrow, flattened, green leaves forming a loose, erect head.

MUSKMELON (TREATED)

DELICIOUS 51—83 days .10 .35
(Early Bender) Large fruits, heavily netted. Flesh orange, deep, good flavor. Fusarium Wilt resistant.

**DELICIOUS 51**

BENDERS SURPRISE—90 days .10 .35
Extra large fruits distinctly ribbed and well netted. Flesh deep orange, thick and of excellent flavor.
PRIDE OF WISCONSIN—90 days .10 .35
Fruits medium sized, heavily netted; flesh thick and of excellent quality.
IROQUOIS—95 days (f.) .10 .35
Resistant to Fusarium Wilt. Fruits large, well ribbed and netted; excellent quality.
HEARTS OF GOLD—95 days .10 .35
Fruits lightly ribbed with medium net. Flesh deep orange, good quality.

ONIONS

	Pkt.	Oz.
EARLY YELLOW GLOBE —98 days	\$10	\$.40
Large, globe-shaped, yellow-skinned bulbs. Early, uniform strain.		
MICHIGAN YELLOW GLOBE —110 days (s.)	.10	.40
(Brigham Strain) Bulbs globe shaped with heavy outer skin.		
SWEET SPANISH —110 days	.10	.60
(Utah Strain) Large, mild flavored bulbs.		
GREEN BUNCHING —60 days	.10	.40
(Scallions) Green tops with long, pure white stems. Mild in flavor.		

PARSLEY

	Pkt.	Oz.
MOSS CURLED —70 days	.10	.20
Finely cut leaves, dark green color. Used for flavoring, garnishing and decorative appearance.		
PLAIN OR DARK GREEN ITALIAN —80 days	.10	.25
Leaves dark green, deeply cut, but not curled.		
HAMBURG —90 days	.10	.20
(Heimisher) (Parsnip rooted) Thick, fleshy roots for flavoring. Leaves not curled.		

PARSNIP

	Pkt.	Oz.
ALL AMERICAN —95 days	.10	.20
Long, white, tapered roots; tender and of good flavor.		

PEAS

	(TREATED)	1/2 lb.	1 lb.
THOMAS LAXTON —58 days (c. f.)	\$25	\$.45	
Pods 3 1/2 inches long, blunt, dark green. Vines 3 feet tall. Freezonian recommended as replacement.			



	Pkt.	Oz.
FREEZONIAN —60 days (c. f.)	.25	.45
An improved Thomas Laxton type. Vines heavy, 3 feet tall, bearing blunt dark green pods 3 1/2 inches long with an average of seven peas per pod.		

LITTLE MARVEL —60 days	.25	.45
Short, dark green, prolific vines. Pods 3 inches long, blunt, dark green, tightly filled.		

LAXTON'S PROGRESS —62 days	.25	.45
Dwarf vines bearing pointed 4-inch pods with large peas of good quality.		

ONEIDA —65 days (c. f.)	.25	.45
A late-maturing, high-quality companion variety to Freezonian for freezing. 3 1/2 to 4-inch pods which are blunt and dark green.		

WANDO —68 days (c. f.)	.25	.45
A heat-resistant variety that can be planted as late as mid-June. Produces short, blunt pods of good quality.		

ALDERMAN —70 days	.25	.45
(Telephone) Pods 4 1/2 inches long, pointed, ballooned, dark green; vines 4-5 feet tall, usually grown on trellis.		

PEPPERS

	Pkt.	Oz.
EARLY GIANT —63 days	\$10	\$1.00
Prolific variety for early use. Medium-sized fruit with thin flesh.		

EARLY CALWONDER —68 days	.10	1.00
Fruits blocky, smooth with thick, mild, sweet flesh.		

WORLD BEATER —72 days	.10	.85
Large, oblong, glossy fruits with mild flesh borne on large, prolific plants.		

BURLINGTON —72 days	.10	1.00
A Mosaic-resistant strain of World Beater with thicker flesh.		

CALIFORNIA WONDER —75 days	.10	.85
Fruits large, smooth, blocky with very thick, firm flesh.		

	Pkt.	Oz.		Pkt.	Oz.	1/4 lb.
LONG RED CAYENNE —80 days (Hot) Fruits $\frac{1}{2}$ -inch thick, 5 inches long and tapered; bright red and very pungent when mature.	\$1.10	\$1.00		BUTTERCUP —100 days (f.)	\$1.10	\$3.35 \$1.10
HUNGARIAN WAX (Hot) Long, thick, tapered fruit. Bright yellow at maturity, turning red.	.10			Green colored, flattened fruit with button on blossom end which contains seed. Solid, deep-orange flesh with no fiber.		
PUMPKINS SMALL SUGAR —110 days (s.)	.10	.20		GREEN DELICIOUS —105 days (f.)	.10	.30 1.00
(New England Pie) Small, deep-orange colored fruits used mainly for pies. Excellent quality.				Dark green, top-shaped fruit of medium to large size. Deep orange flesh, very good quality. Excellent keeper.		
CONNECTICUT FIELD —115 days	.10	.20		WARTED HUBBARD —110 days (s.)	.10	.30 1.00
Large fruits, 15-20 pounds deep orange color. Used for canning, stock feed and decorations.				Large, deep-green, heavily-warted fruit. Thick, deep-orange flesh of good quality.		
SWEET CHEESE —120 days (Long Island Type) Used for pies, canning and stock feed. Creamy buff skinned, flat shape.	.10	.20		BLUE HUBBARD —110 days (s.)	.10	.35 1.00
				Very large, slate blue, moderately smooth fruit; long type, tapered toward both ends. Good quality. Heavy yielder.		
RADISHES SCARLET GLOBE —25 days	.10	.20		TOMATOES VALIANT —70 days	\$1.10	\$8.85
Bright scarlet, smooth roots with crisp, white flesh. Medium-length tops.				An early home and market garden variety. Fruits bright Scarlet red; large, globe-shaped.		
SPARKLER —25 days	.10	.20		EARLIANA —65 days	.10	.90
Roots bright scarlet with pronounced white tips. Crisp, white flesh and mild flavor.				Bright scarlet, slightly flattened fruit. An old favorite early variety.		
WHITE ICICLE —30 days	.10	.20		JOHN BAER —74 days	.10	.80
Roots pure white, 5-6 inches long, tapered. Flesh crisp, white and stronger than globe types.				Fruits medium-sized, flattened, globe-shaped. Good yielder.		
LONG BLACK SPANISH —55 days	.10	.20		LONGRED —76 days (c.)	.10	.85
Good keeper. Roots long, skin somewhat roughened, black. Flesh white; strong flavor.				Excellent, uniformly red, smooth, globe-shaped fruit with a minimum of cracking. Good yielder of high-quality fruit over a long period. Excellent canning variety.		
RUTABAGA				QUEENS —77 days	.10	1.10
LONG ISLAND IMPROVED —95 days (s.)	.10	.20		Large, smooth, deeply-colored fruit of Rutgers type. Plants large and spreading.		
(American Purple Top) Roots large, yellow with purple crown. Excellent storage variety.				SUNRAY —78 days	.10	1.10
SALSIFY (OR VEGETABLE OYSTER)				Yellow-orange colored, large, fleshy fruit. Attractive for table use and juice.		
MAMMOTH SANDWICH ISLAND —135 days	.10	.50		MARGLOBE —78 days	.10	.80
Roots 8-9 inches long, gradually tapered, with white flesh. Use similar to parsnips.				High-quality, thick-fleshed, scarlet-colored fruit.		
SPINACH				RUTGERS —85 days (c.)	.10	.90
Long Standing BLOOMSDALE —45 days (f.)	.10	.15		Best of the late varieties. Large, heavy-yielding plants with solid, deep-colored fruit.		
For Spring planting. Large, dark green, heavily savoyed leaves.				TURNIP		
AMERICA —50 days (f.)	.10	.15		PURPLE TOP WHITE GLOBE —56 days (s.)	.10	.15
Leaves dark green and very heavily savoyed. Very slow to form seed stalks.				Roots round, white with purple shoulders. Flesh white and tender.		
NEW ZEALAND —55 days	.10	.15		WATERMELONS		
Not a true spinach. Large, spreading plants produce numerous small leaves. Will give a continuous supply of summer greens.				HONEY CREAM —80 days (f.)	.10	.45
SQUASH BUSH TYPE, SUMMER				Very popular early variety. Fruits approximately 12 inches in diameter with light green rind overlaid with dark green striping. Flesh is deep yellow, crisp and of excellent quality.		
EARLY PROLIFIC STRAIGHTNECK —50 days (f.)	\$1.10	\$2.20	\$6.65	STONE MOUNTAIN —90 days	.10	.25
Fruits medium-sized, straight, bright yellow, smooth and uniform.				Large, oval, dark-green fruits with thick rind and bright red flesh.		
EARLY WHITE BUSH SCALLOP —50 days	.10	.20	.60	MISCELLANEOUS		
				SWEET PEAS SPENCER MIXED	.10	.25
(Patty Pan) Mature fruits white, smooth, flattened and round with scalloped margins.				This special mixture will produce many-colored, attractive flowers during the summer months. Mixture contains some Cuthbertson-type seed for early flowering; this results in flower production over a longer period. Should be planted early and treated with pea inoculation for best results.		
COCOZELLE —55 days	.10	.25	.75	GOARDS SMALL MIXED	Pkt.	\$1.00
Fruits smooth, long, cylindrical, dark green with light green stripes. Italian marrow type.				For ornamental purposes only. Fruits are of various forms and shapes and show a variety of color. Fruits harvested before frost and painted with clear shellac will keep for some time and are very attractive.		
BLACK ZUCCHINI —60 days	.10	.25	.75	FENNEL FLORENCE (FENUCHE) —110 days		
(Dark Green Zucchini) Long, cylindrical, smooth fruit with very dark green color.						
VINE TYPE—FALL OR WINTER				OKRA		
TABLE QUEEN —85 days	.10	.25	.75	MAMMOTH LONG GREEN POD —60 days	.10	
(Mammoth or Royal Acorn) Fruits 5-6 inches long, pointed and ridged, dark green in color. Flesh yellow, medium-thick and of high quality. A favorite for baking "in the half-shell."				Plants four feet tall, producing dark green, fleshy pods 7 to 8 inches long. Pods distinctly ribbed and tapered.		
BUTTERNUT —90 days (f.)	.10	.40	1.25			
Fruits blocky with enlarged blossom end. Buff colored. Excellent quality; very popular.						



CONTROLLING INSECTS AND DISEASES IN THE GARDEN

- Plan your insect and disease control program early and have necessary materials on hand when you need them.
- Dust early in the morning or late in the evening when there is little or no wind and dew may be present.

- Crop diseases must be prevented. After they are established in the plant, they cannot be cured.
- Don't use your crop-spraying equipment for 2,4-D or other hormone-type chemicals.

CROP	MATERIAL		Time to Apply
	SPRAY	DUST	
ASPARAGUS Asparagus Beetle	G.L.F. Dual Garden Spray	G.L.F. 1% Rotenone Dust	Whenever beetles are present. Rotenone is harmless and may be washed off the spears after cutting.
BEANS Mexican Bean Beetle and Flea Beetle	G.L.F. Dual Garden Spray or G.L.F. Garden Insecticide or G.L.F. 50% Malathion	G.L.F. 1% Rotenone Dust or G.L.F. 5% Malathion Dust or G.L.F. Dual Garden Dust	Whenever beetles are present. Make application to underside of leaves. Repeat at weekly intervals to kill newly-hatched larvae.
CABBAGE, CAULIFLOWER, KALE, BRUSSELS SPROUTS and BROCCOLI Imported Cabbage Worm Diamond Back Moth	G.L.F. Garden Insecticide or G.L.F. Dual Garden Spray	G.L.F. 5% Malathion Dust or G.L.F. 1% Rotenone Dust	As soon as young worms become visible. Repeat weekly as needed.
CELERY Bacterial, Early and Late Blights Tarnished Plant Bugs	G.L.F. Dual Garden Spray	G.L.F. Dual Garden Dust	As soon as plants become established and repeat at weekly intervals to within 14 days of harvest. Dust just before cultivation.
CORN European Corn Borer		G.L.F. 5% DDT Dust	As soon as young borers appear on the leaves in late May or early August for second brood. Make four applications at five day intervals. Direct the dust downward into the crowns and leaf axils.
Corn Ear Worm		G.L.F. 5% DDT Dust	When 25% of the ears show silk. Repeat at three-day intervals until five applications have been made.
CUCUMBERS, MELONS, SQUASH Cucumber Beetles Squash Vine Borer Bacterial Wilt Angular Leaf Spot Anthracnose	G.L.F. Dual Garden Spray	G.L.F. 1% Rotenone — 7% Ziram Dust or G.L.F. Dual Garden Dust	Apply at weekly intervals as soon as the plants emerge.
ONIONS Onion Thrip	G.L.F. Garden Insecticide or Black Leaf 40 or G.L.F. Dual Garden Spray	G.L.F. 5% Malathion Dust or G.L.F. 5% DDT Dust	Weekly as thrips appear.
PEAS Aphis	G.L.F. 50% Malathion Emulsion or G.L.F. Garden Insecticide	G.L.F. 5% Malathion Dust	As soon as aphis appear.
POTATOES, EGG PLANT, PEPPERS Colorado Potato Beetle Flea Beetle Leaf Hoppers Late Blight	G.L.F. Dual Garden Spray	G.L.F. Dual Garden Dust	When plants break through the ground and repeat at weekly intervals until harvest on potatoes and to within 14 days of harvest on eggplant.
TOMATOES Colorado Potato Beetle Flea Beetle Blight Anthracnose	G.L.F. Dual Garden Spray	G.L.F. 1% Rotenone — 7% Ziram Dust or Dual Garden Dust	As soon as the plants are set out. For best protection, use the two dusts alternately at weekly intervals. When the weather is conducive to late blight (cool nights and warm days) use Dual Garden Dust only at 5-day intervals.
SOIL INFESTING INSECTS Cutworms Ants	72% Chlordane Emulsion	G.L.F. 5% Chlordane Dust	Dust heavily around base of plants to be protected.



G.L.F. Dual Garden Dust
5 lb. Bag
1 lb. Cannister

G.L.F. Dust No. 27—5 lb. Bag

ACP Rose and Floral Dust
1 lb. Cannister



Black Leaf 40—1 oz. Bottle
5 oz. Bottle
1 lb. Bottle

G.L.F. 5% Chlordane Dust
1 lb. Can
5 lb. Bag



HOME GARDENERS

insect and disease control supplies



Bulb Dust (5% DDT)	1 lb. canister
G.L.F. 5% Chlordane	5 lb. bag
	1 lb. canister
G.L.F. 5% DDT Dust	5 lb. bag
5% Dieldrin Granular Dust	4 lb. box
	1 lb. box
G.L.F. Dual Garden Dust	5 lb. bag
	1 lb. canister
G.L.F. 5% Malathion Dust	5 lb. bag
Rose and Floral Dust	8 oz. duster gun
G.L.F. 1% Rotenone Dust	5 lb. bag
G.L.F. Rotenone-Ziram Dust	5 lb. bag
Black Leaf 40	5 oz. bottle
Bordeaux-Powder, Tribasic	1 lb. canister
Captain 50-W	1 lb. canister
72% Chlordane Emulsifiable	1 pt. bottle
50% Chlordane Wettable Powder	1 lb. canister
G.L.F. 25% DDT Special Concentrate	1 pt. bottle
50% DDT Wettable Powder	1 lb. canister
G.L.F. Dieldrin Emulsifiable	1 pt. bottle
G.L.F. Dual Garden Spray	5 lb. bag
	1 lb. canister
DX Aero Spray (Aerosol)	10 oz. bomb
DX Insect Spray	4 oz. bottle
Formaldehyde	1 lb. bottle
G.L.F. Garden Insecticide	1/2 pints
G.L.F. 50% Malathion Emulsifiable	1 pint
25% Wettable Malathion Powder	1 lb. canister
G.L.F. Rose and Floral Spray	5 lb. bag
	1 lb. canister
Rose and Floral Aerosol	10 oz. bomb
Slug and Snail Pellets	12 oz. box
Lime, Hydrated, All Purpose	25 lb. bag
	10 lb. bag
Rootone with Fungicide	2 oz. jars
	1/4 oz. packets
Rosetone	3 oz. packet
	1/2 oz. canister
Transplantone	3 oz. packet
	1/2 oz. canister

FERTILIZER—G.L.F. specialty garden and lawn fertilizers are distributed under the GroLeaf label.

SOLUBLE GROLEAF 14-28-14—Is especially formulated for liquid application. It contains essential minor elements. Recommended for use in transplanting in water and other places where liquid application is preferred. May also be applied dry. Available in 4-pound bags.

HIGH ORGANIC PLANT FOOD—This specially prepared lawn fertilizer is a high organic 10-6-4 mixture. It gives excellent results on established lawns, new lawns, perennial shrubs and trees. 50-pound sack.

PEAT MOSS—Peat moss provides humus to make the soil mellow, easy to cultivate and increase the moisture-holding capacity. Available in large bales, medium-sized bales and handy packages.

SOIL TEST KITS—Make your own soil test for acidity (need for lime). This is the most important single test made on soils. Nearly everyone can do it with this sample kit. Few are qualified to do a complete soil testing job, which is seldom needed on home gardens.

KRILIUM MERLOAM—Treated soil is easier to spade and cultivate and will not pack down. Hard, crusty soils retard emergence and growth of tender seedlings. New low price.

Krilium Merloam—5 lb. can

Krilium Merloam—1 lb. can

GRO-LEAF ROSE FOOD—A 5-10-5 analysis for use on roses and deciduous flowering shrubs. Ideal for new beds as well as maintaining established plantings. Application rates and recommended methods are on each package. 10 and 50-pound bags.

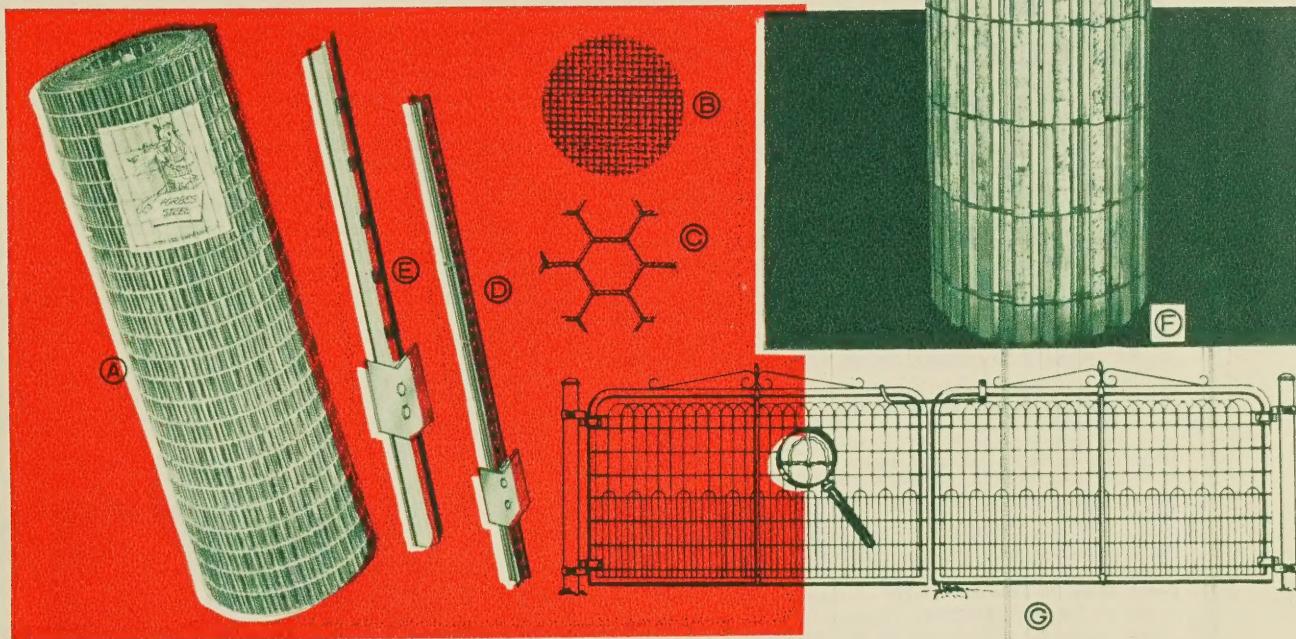
GRO-LEAF GARDEN PLANT FOOD—A 5-10-5 plant food for vegetables, perennials, annuals and bulbous flowering plants. Detailed recommendations for application and rates are included on each package. 10 and 50-pound bags.

GRO-LEAF EVERGREEN PLANT FOOD—An 8-4-4 analysis of the acid type for broad and narrow leaved evergreens such as Rhododendron, Azalia, Andromeda, Mountain Laurel, Holly, Hemlock, Yew, Pine, Fir and Spruce. Recommended rates and applications are given on the package. 10 and 50-pound bags.



FENCES

... for your
lawn and garden



WELDED WIRE FABRIC—A smooth galvanized wire fencing that is easy to cut and shape to a wide range of home grounds uses. Can be used to enclose gardens, play areas and pet enclosures. A good material for trellis filler and similar support when long life and easy shaping are desirable qualities. Rolls of 100-foot length and choice of spacing and height to meet your requirements.

(A) 1" x 2" x 24"—14 gauge	69-300	\$12.55
1" x 2" x 36"—14 gauge	69-301	\$18.90
1" x 2" x 48"—14 gauge	69-302	\$24.10
1" x 4" x 48"—12½ gauge	69-322	\$31.55
2" x 4" x 48"—12½ gauge	69-332	\$17.65

HARDWARE CLOTH—A closely-woven material of top quality for use as tree guard and protective shield for prize plantings on the home grounds. Use also for partitions and storage area lining. Easily cut and shaped. Galvanized after weaving for maximum rust protection and longer life.

(B) ¼" mesh—30" height, 50-ft. roll	69-350	
per lin. ft.		\$.32
½" mesh—30" height, 50 ft. roll	69-360	
per lin. ft.		\$.32
½" mesh—36" height, 100-ft. roll	69-366	
per lin. ft.		\$.33

NETTING—A popular fencing material for home grounds use both as fencing, for plant supports and trellis filler. Woven diamond mesh with special lock twist with no loose ends. Galvanized after weaving for longer rust-free life. Width from 12 to 72", 1" and 2" mesh size in 150-foot rolls.

(C) 1" mesh—12" height—150' roll	69-220	\$ 5.45
1" mesh—36" height—150' roll	69-224	\$15.15
2" mesh—36" height—150' roll	69-231	\$ 7.10
2" mesh—48" height—150' roll	69-232	\$ 9.45

LUGGED "U" POST—A "U" shaped post of re-rolled steel and with lugs spaced for easy placing and anchoring wire.

(D) 5 ft.—each	69-761	.....	\$ .82 to \$.88*
6 ft.—each	69-762	.....	.95 to 1.00*
6½ ft.—each	69-763	.....	.96 to 1.01*
7 ft.—each	69-764	.....	1.02 to 1.07*
8 ft.—each	69-766	.....	1.15 to 1.20*

*depends upon your freight zone

STUDDED "T" POST—A sturdy "T" shaped post with rounded studs to hold wire in place without damage to galvanized coating. Allows for contraction and expansion of fencing.

(E) 5 ft.	69-741	.....	\$ .91 to \$.95*
6 ft.	69-742	.....	1.06 to 1.10*
6½ ft.	69-743	.....	1.13 to 1.18*
7 ft.	69-744	.....	1.20 to 1.25*

*depends upon your freight zone.

SLATTED WOOD FENCE—An inexpensive, unpainted fence for temporary garden, play area or pet enclosures. Makes good winter shield for shrubs and snow fence for drives. Wood slats firmly woven in even spacing with wire binding.

(F) 50' rolls	66-125	
100' rolls	66-126	

FLOWER BORDER WITH STAKES—Easy erection and full height plus the added 4" anchorage gained with the slip-in stakes make this a highly popular home garden border fence. This 18" border of 16-gauge wire, galvanized after welding, is in 50-foot rolls and includes 14 sturdy stakes. Stakes spaced about 4½ feet apart hold the fence firmly.

Flower Border with Stakes—18"x50' roll 69-375 \$3.50

DOUBLE-DRIVE GATE—A really attractive and practical double-drive gate. Made of high-carbon structural steel tubing with corners miter-butted welded. The scroll filler of 9½-gauge double-picket lawn fence is welded to frame. Includes overthrow latch, rest block and wood post fittings.

(G) Double-Drive Gate—10' x 42" 69-864 \$25.50

Eliminate August waste and "winter wishing" from your garden this year with a

G.L.F. UNICO FREEZER

No more wondering what to do with the flush garden harvest of summer that you can't possibly eat. No more "winter wishing" for a garden-fresh serving of peas, beans, asparagus or berries. Your G.L.F. Unico freezer keeps your garden supplying these foods right through the year—and easily too!

Preparing foods for the freezer is easier than canning. Pick crops in their prime. Use what you need for meals and prepare the rest for the freezer.

During the growing season you can often make good quantity purchases of supplies you do not grow. Put in the freezer they mean better eating and savings as well.

(A) G.L.F. UNICO 24 CU. FT. FREEZER—A wonderful family size with room enough for garden and berry patch harvest plus the extra purchases of meats and fowl or any game. Holds up to 840 pounds of food. Plenty of quick freeze capacity and storage space enough for convenient arrangement. Door shelves for the small items and fruit juices.

Efficient "Kwik-flow Cold" chip and rust-resistant inner liner, dense non-settling insulation, sealed unit warranted 5 years.

Unico 24 cu. ft. Freezer 21-126 \$521.35

(B) G.L.F. 35 CU. FT. FREEZER—There is room for everything, plenty of fast freezing capacity, convenience in arranging supplies and packages are surprisingly easy to reach in this two-door upright model. Door shelves hold the small items and frozen juices where they are handy.

The inner liner is efficient, long life, easy-to-clean aluminum. The Unico Kwik-flo-Cold offers top efficiency in fast freezing and low temperature food storage. The hermetically sealed compression is warranted for five years. A dense, non-settling insulation completely seals in the cold.

Unico 35 cu. ft. 21-108 \$614.00

These are but two models in a complete line of modern upright and chest-type home food freezers designed in sizes to meet the requirements of every home—see the G.L.F. Unico freezer line at your G.L.F. Service Agency.

GOOD PACKAGING MAKES THE DIFFERENCE—Made specifically for low temperature storage protection of flavor and food value. Designed for easy filling, clear identification of contents, for compact stacking in storage. There is a G.L.F. freezer package for every type, shape and size of food product.

VAPOCANS—Thermoplastic coated, this is an ideal package for syrup, brine packs and dry pack. Has tight-fitting plastic lids.

(C)	Pint size—10 per carton—per package	21-249	..	.49
	1½ Pint size—20 per carton—per package	21-250	..	.98
	Quart size—10 per carton—per package	21-253	..	.79
	Lids—20 per carton	21-251	..	1.15

NESTRITE—Popular wet or dry pack container with snap-in sealing lid. Easy to fill, and stack.

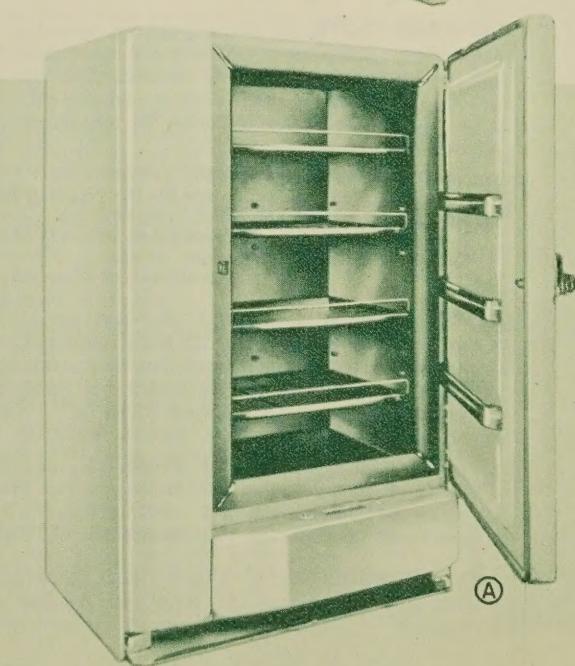
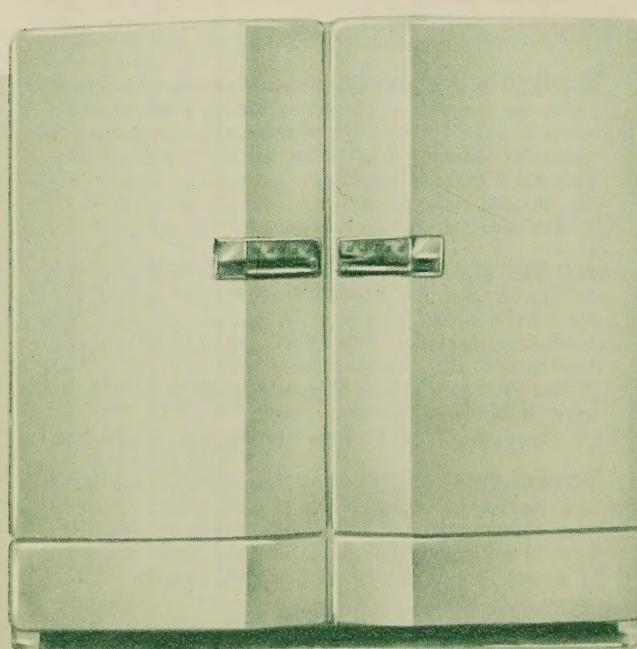
(D)	Pint size—25 per package	21-228	..	\$1.32
	Quart size—15 per package	21-227	..	1.22
	Extra lids—indicate size			.38

G.L.F. POLYETHYLENE PLASTIC—A desirable, flexible container for maximum quality protection of all foods in your freezer.

(E)	Pint size—per package of 6 units	21-196	..	\$1.45
	1½ Pint size—per package of 5 units	21-197	..	1.45
	Quart size—per package of 4 units	21-198	..	1.45
	½ Gallon size—each	21-210	..	.89

(F)	G.L.F. "POLY" BAGS	—The convenient, vapor-moisture-proof packaging for large and odd shaped items—meats, fowls, baked goods. Package size from pint capacity to large turkey size container. Per package	.....	\$ .39
	G.L.F. POLY-COATED PAPER	—18" x 6' roll in cutter box.	21-212	..... \$1.40

These are but a few of the wide selection of food freezer packaging supplies that are always in stock at your G.L.F. Service Agency.



BEEFSTEAK every day?

If you and I ate nothing but beefsteak day in and day out we'd get pretty sick of it. Your dog feels the same way about it. Dogs are healthier and happier when they get a **varied** diet.



THAT'S WHY



Big Red Dog Food Leads the Field in Variety

Big Red offers you a complete choice from the "lucky 7"—seven varieties of Big Red Dog Food, each different in texture or flavor.

Big Red leads in quality

Big Red is the result of 18 continuous years of research by America's foremost canine nutrition specialists at Cornell University. Its unsurpassed formulas have made it a favorite of veterinarians and kennel operators.

Big Red leads in price

Compare prices in relation to ingredients—protein, fat, and minerals. You will find that your dollar buys more **quality** as well as more **feeding value** in Big Red.

Here is your choice—

IN BAGS

Big Red Meal—a completely balanced 25% protein ration.

Big Red Pellets—a complete food in easy to feed form—25% protein level.

Big Red Kibbled Biscuit—a pleasant texture change.

IN CANS

Big Red Beef—a boneless, filler-free 100% beef canned food.

Big Red Chicken—a special "treat" for the fussy eater.

Big Red Horse Meat—made of only the finest cuts of solid pack, tasty meat items.

Big Red Ration (half meat—half cereal)—a balanced food—lower in price than the other leading brands of meat and cereal foods.

DON'T MISS *this special offer*

For a limited time you can get a bright aluminum Big Red dog tray valued at \$1.59 for only \$75 and the bottom of a Big Red Dog Food bag or three labels from any of the Big Red Canned Dog Foods. This tray has two bowls—one for food and one for water. These bowls are set in a sturdy aluminum frame with four suction feet which even the most ravenous pup can not spill or tip. It's easy to clean, will not rust or chip. No more chasing empty dishes under tables or in corners—no spilled food and water to clean up. Mail coupon today with \$75 and one Big Red bag bottom or three can labels to get your Big Red dog tray.

Note: for an extra \$10 to cover handling, we will send complete manual "How to Rear and Train Dogs."

BIG RED

83 BUFFALO STREET, CANANDAIGUA, N. Y.

Enclosed is (\$75 each) and Big Red bag bottoms or Big Red
amount number number
Canned Food labels for Big Red Dog Trays. I have added \$10 for a copy of the book
quantity
"How to Rear and Train Dogs."

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Address.....

City.....

Zone..... State.....

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ITHACA, N. Y.



Look to your G.L.F. for the best in
lawn and garden supplies, fertilizer
and seed . . . quantities for a back
yard garden or a complete farm.

